CX-JT8

SERVICE MANUAL

Ver 1.0 2003.04

AEP Model
UK Model
E Model
Australian Model

CX-JT8 is the tumer, amplifier, casette deck and CD player section in JAX-T8 and JAX-PK8.

CD Section	Model Name Using Similar Mechanism	NEW
	CD Mechanism Type	CDM74F-K6BD71A
	Base Unit Name	BU-K6BD71A
	Optical Block Name	KSM-213DCP
	Optical Pick-up Name	KSS-213D
Tape deck Section	Model Name Using Similar Mechanism	NEW
	Tape Transport Mechanism Type	CWM43RR23

SPECIFICATIONS

TUNER

FM tuning range	87.5 MHz to 108 MHz
FM usable sensitivity (IHF)	16.8 dBf
FM antenna terminal	75 ohms (unbalanced)
AM tuning range	531 kHz to 1602 kHz
AM usable sensitivity	350 μV/m
AM antenna	Loop antenna

AMPLIFIER

Power output	**Front:** Rated: 144 W + 144 W (6 ohms, T.H.D. 1 %, 1 kHz/DIN 45500) Reference: 180 W + 180 W (6 ohms, T.H.D. 10 %, 1 kHz/DIN 45324) MUSIC POWER: 320 W + 320 W **Front and Surround:** 125 W + 55 W (6 ohms, T.H.D. 10 %, 1 kHz/DIN AUDIO)
Total harmonic distortion	0.08 % (90 W, 1 kHz, 6 ohms, DIN AUDIO)
Input	MD (VIDEO): 1.5 V
Outputs	SPEAKERS: 6 ohms or more PHONES: 32 ohms or more

CASSETTE DECK

Track format	4 tracks, 2 channels stereo
Frequency response	50 Hz – 8 kHz
Recording system	AC bias
Heads	Deck A: playback x 1 Deck B: recording/playback x 1, erase x 1

CD PLAYER

Laser	Semiconductor laser (λ = 780 nm) Emission duration: continuous
D/A converter	1 bit dual
Signal-to-noise ratio	85 dB (1 kHz, 0 dB)
Harmonic distortion	0.05 % (1 kHz, 0 dB)

GENERAL

Power requirements	230 V AC, 50/60 Hz
Power consumption	210 W
Power consumption in standby mode	With ECO mode on: 0.25 W With ECO mode off: 24 W
Dimensions (W x H x D)	280 x 328 x 437 mm (AEP, UK, CIS, E, SP, AUS) 280 x 328 x 446 mm (E51)
Weight	10.3 kg

Specifications and external appearance are subject to change without notice.

COPYRIGHT

Check copyright laws relevant to recordings from discs, or tape for the country where the unit is to be used.

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- Abbreviation
  AUS : Australian model
  E51 : Chilean and Peruvian models
  SP : Singapore model

COMPACT DISC DECK RECEIVER

9-877-255-01
2003D0500-1
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Sony Corporation
Home Audio Company
Published by Sony Engineering Corporation

Notes on chip component replacement

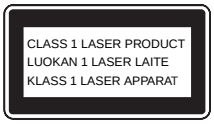
- Never reuse a disconnected chip component.
- Notice that the minus side of a tantalum capacitor may be damaged by heat.

Flexible Circuit Board Repairing

- Keep the temperature of the soldering iron around 270 ˚C during repairing.
- Do not touch the soldering iron on the same conductor of the circuit board (within 3 times).
- Be careful not to apply force on the conductor when soldering or unsoldering.

CAUTION

Use of controls or adjustments or performance of procedures other than those specified herein may result in hazardous radiation exposure.



This appliance is classified as a CLASS 1 LASER product.

This label is located on the rear exterior.

SAFETY-RELATED COMPONENT WARNING!!

COMPONENTS IDENTIFIED BY MARK ⚠ OR DOTTED LINE WITH MARK ⚠ ON THE SCHEMATIC DIAGRAMS AND IN THE PARTS LIST ARE CRITICAL TO SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUBLISHED BY SONY.

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- Abbreviation
  AUS : Australian model
  E51 : Chilean and Peruvian models
  SP : Singapore model

SECTION 1
SERVICING NOTES

NOTES ON HANDLING THE OPTICAL PICK-UP BLOCK OR BASE UNIT

The laser diode in the optical pick-up block may suffer electrostatic break-down because of the potential difference generated by the charged electrostatic load, etc. on clothing and the human body.
During repair, pay attention to electrostatic break-down and also use the procedure in the printed matter which is included in the repair parts.
The flexible board is easily damaged and should be handled with care.

NOTES ON LASER DIODE EMISSION CHECK

The laser beam on this model is concentrated so as to be focused on the disc reflective surface by the objective lens in the optical pick-up block. Therefore, when checking the laser diode emission, observe from more than 30 cm away from the objective lens.

LASER DIODE AND FOCUS SEARCH OPERATION CHECK

Carry out the "S curve check" in "CD section adjustment" and check that the S curve waveforms is output three times.

UNLEADED SOLDER

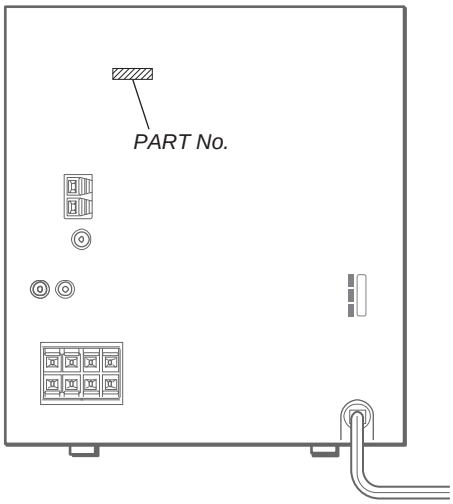
Boards requiring use of unleaded solder are printed with the lead-free mark (LF) indicating the solder contains no lead.
(Caution: Some printed circuit boards may not come printed with the lead free mark due to their particular size)

: LEAD FREE MARK

Unleaded solder has the following characteristics.

- Unleaded solder melts at a temperature about 40 ˚C higher than ordinary solder.
  Ordinary soldering irons can be used but the iron tip has to be applied to the solder joint for a slightly longer time.
  Soldering irons using a temperature regulator should be set to about 350 ˚C.
  Caution: The printed pattern (copper foil) may peel away if the heated tip is applied for too long, so be careful!
- Strong viscosity
  Unleaded solder is more viscou-s (sticky, less prone to flow) than ordinary solder so use caution not to let solder bridges occur such as on IC pins, etc.
- Usable with ordinary solder
  It is best to use only unleaded solder but unleaded solder may also be added to ordinary solder.

• MODEL IDENTIFICATION
– Back Panel –

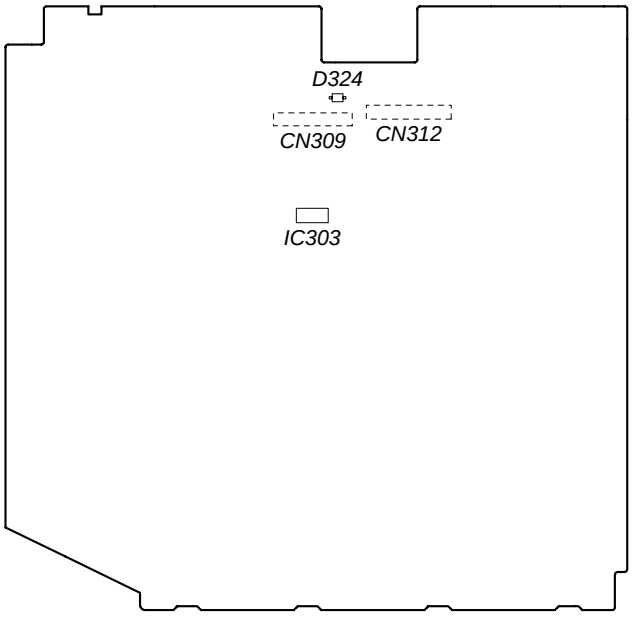


MODEL	PART No.
Chilean and Peruvian models	4-245-109-0□
AEP, UK, CIS and Australian models	4-245-109-2□
E and Singapore models	4-245-109-7□

• DISCRIMINATION

Either type of the MAIN board, Part No. 1-688-080-11 or 1-688-080-13 is used for Chilean and Peruvian models.
Note: For other models, only one type of the MAIN board, Part No. 1-688-080-13 is used.
How to identify the type is described below.

– MAIN BOARD (Conductor Side) –

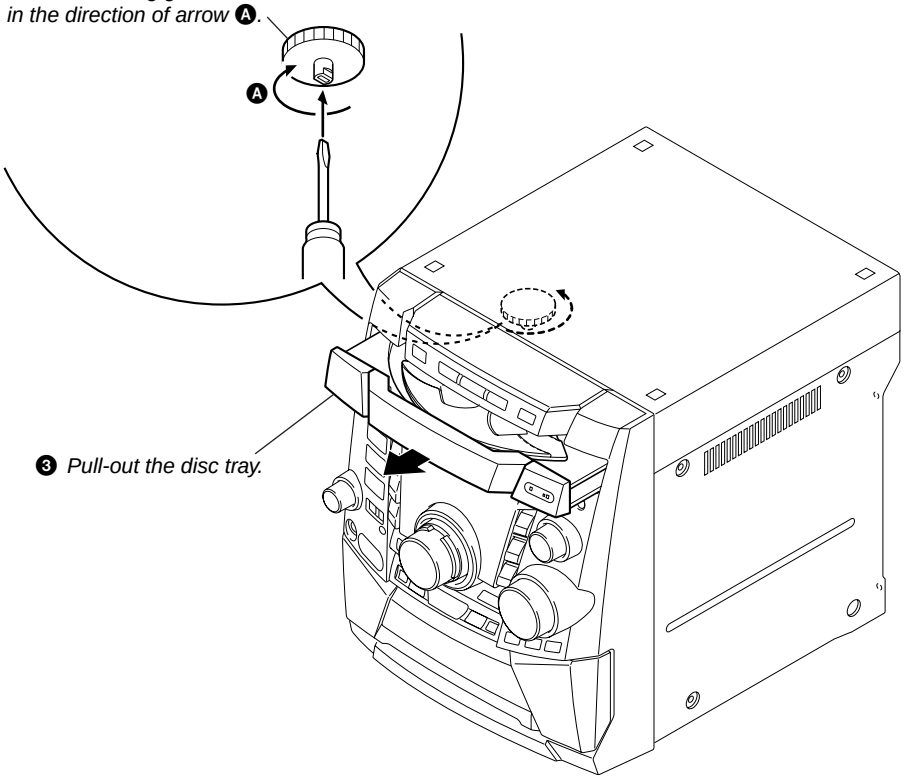


	D324
Suffix-11	×
Suffix-13	○

HOW TO OPEN THE DISC TRAY WHEN POWER SWITCH TURNS OFF.

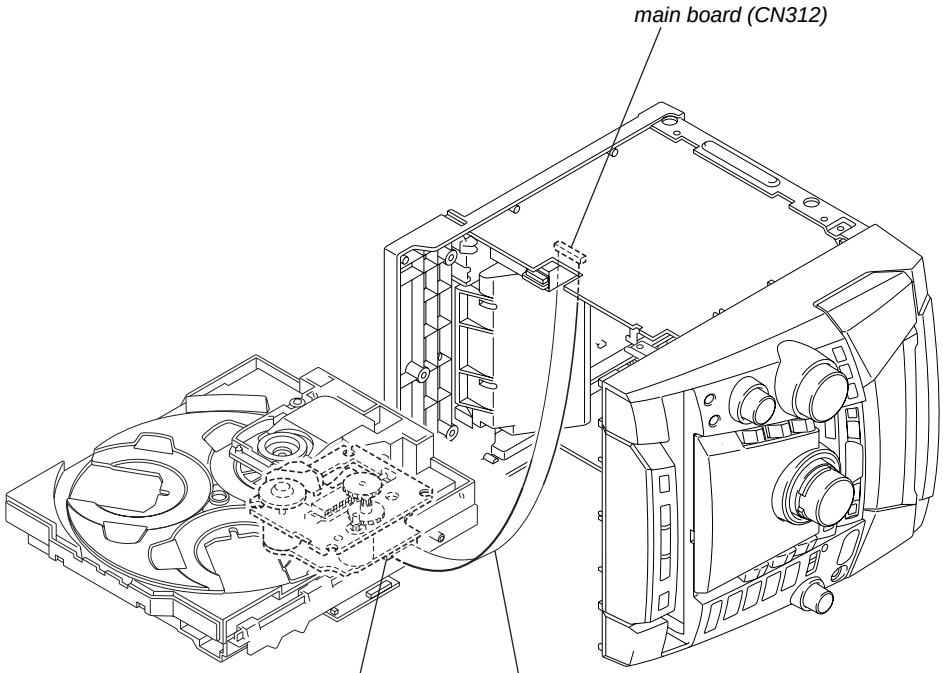
❶ *Remove the case (side-L).*

❷ *Turn the loading gear in the direction of arrow* Ⓐ.

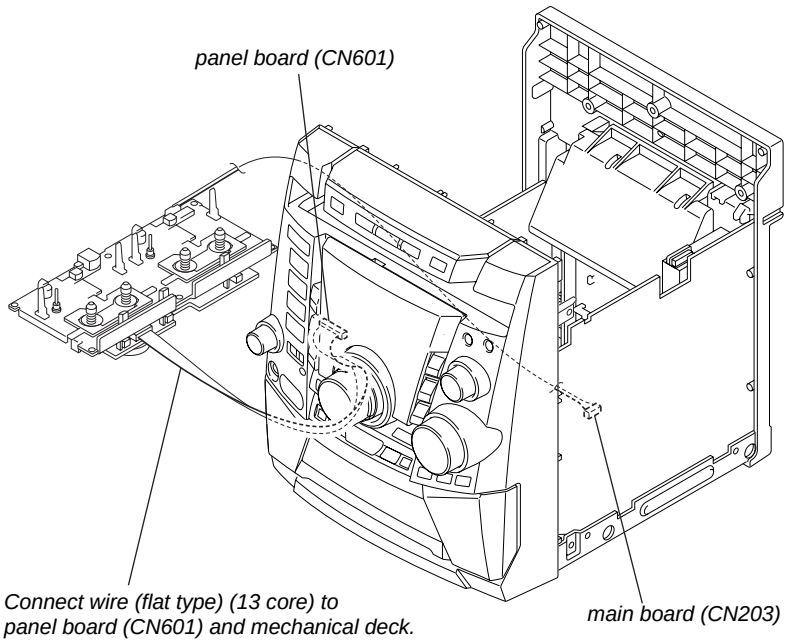


❸ *Pull-out the disc tray.*

SERVICE POSITION
– CD mechanism deck –



– Tape mechanism deck –



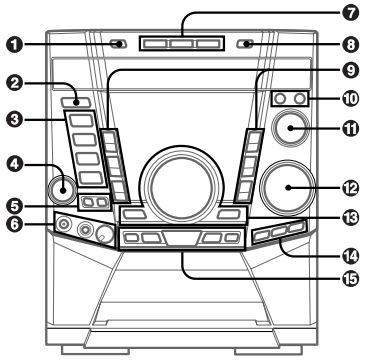
SECTION 2
GENERAL

This section is extracted from instruction manual.

• LOCATION OF CONTROLS

Main unit: front

Refer to the pages indicated in parentheses for details.



❶ DISC CHANGE/DISC SKIP
Rotates the CD trays.

❷ POWER ⏻STANDBY/ON
Switches the unit on and off (standby).
The red indicator flashes when receiving a signal from the remote.

❸ TAPE A/B
Selects Tape function, and deck A or B.

TUNER BAND
Selects Tuner function and the radio band.

MD (VIDEO)
Selects the function of external equipment connected to MD (VIDEO) jacks.

CD
Selects CD function.

❹ TREBLE/MIDDLE
Enhances high or middle frequency sound.

❺ CD SYNC
Starts Automatic CD dubbing.

REC PAUSE/START
Starts recording.

❻ PHONES jack
Plug in here an optional headphones set with a mini stereo plug (ø3.5 mm). Speaker output is canceled.

MIC jack (Except AEP, UK and CIS models)
Connects the microphone here.

MIC MIXING (Except AEP, UK and CIS models)
Adjusts the microphone volume.

❼ DISC DIRECT PLAY 1-3
Selects a disc.

❽ ⏏OPEN/CLOSE
Opens or closes the disc compartment.

❾ HEAVY, VOCAL, SALSA, TECHNO, HIP HOP, MANUAL
Activates a graphic equalization curve.

❿ MODE
Selects various modes (Play mode and Tape reverse, when used in combination with ENTER and MULTI

ENTER
Fixes the modes and the time (Play mode and reverse, etc.) when used in combination with MODE MULTI JOG.

⓫ MULTI JOG
CD: skips to a previous or a succeeding track.
Tuner: selects a preset station.
Clock and Timer: sets the time.
Selects the mode and the time when used in combination with MODE and ENTER.

⓬ VOLUME
Adjusts the volume.

⓭ BASS
Adjusts low frequency sound.

SURROUND
Switches surround on and off.

i-Bass
Produces rich and clear low frequency sound.

⓮ DISPLAY
Displays the time and the remaining time for CD.
When the unit is off, press DISPLAY to switch between DEMO, Clock and ECO display modes.

ALBUM ▼/▲
Selects a previous album or a succeeding album with MP3-CDs.

PTY (AEP and UK models)
Displays a program type for RDS (Radio Data System)

⓯ ⏮TUNING DOWN, ⏭TUNING UP (◄◄ , ►►)
CD: searches a track in fast forward or fast reverse playback when held down.
Tape: fast forwards or rewinds the tape.
Tuner: manually tunes down or up within the band.

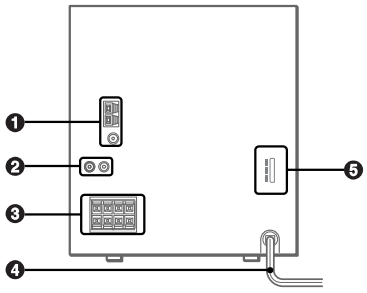
❚❚PAUSE
CD and Tapes: pauses playback.

◄►DIRECTION
CD and Tapes: starts playback.

■STOP
CD and Tapes: stops playback.

Main unit: rear

Refer to the pages indicated in parentheses for details.



❶ AM LOOP, ϒ FM 75 Ω terminals
Plug in the supplied AM and FM antennas here.

❷ MD (VIDEO) jacks
Accepts analog sound signals from external equipment. Connect using an optional connecting cable with RCA phono plugs (red plug to R jack, white plug to L jack). Refer also to the operating instructions of your equipment. To switch function to external input, press MD (VIDEO).

Tip:
To change the displayed name for this function, turn the unit on, then hold down MD (VIDEO) and press POWER on the unit. Repeat the procedure to select "MD" or "VIDEO".

❸ SURROUND SPEAKER terminals
Connect for each speaker the blue cord to the ⊕ terminal and the black cord to the ⊖ terminal.

FRONT SPEAKER terminals
Connect for each speaker the red cord to the ⊕ terminal and the black cord to the ⊖ terminal.

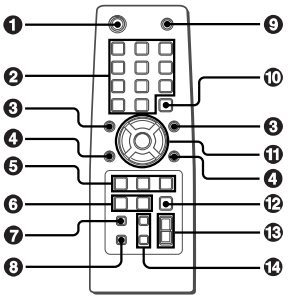
❹ AC power cord

❺ AC VOLTAGE selector (Chilean and Peruvian models)
Switches AC voltage among 120V, 220V, and 230V - 240V.
Make sure it matches your local voltage.

En

Remote control

Refer to the pages indicated in parentheses for details.



Buttons with the same or similar names with the main unit basically have the same function.

❶ **POWER**

❷ **1-0/10, +10**
Selects a CD track of the specified number.

The numbered buttons take on these functions below when pressed together with SHIFT : held down

EDIT
Enters Automatic CD dubbing mode when pressed in stop mode.

BAND
Selects Tuner function and the radio band.

TAPE A/B
Selects Tape function, and deck A or B.

SPECTRUM
Changes the spectrum analyzer display.

TUNER MODE
Switches between stereo or monaural FM reception.

KARAOKE (Except AEP, UK and CIS models)
Selects Vocal Fader mode.

GEQ
Enters Graphic Equalizer setting mode.

TUNER MEMORY
Tuner: stores the received station in to preset.

SURROUND
Switches surround on and off.

❸ **I◄◄, ►►I**
CD: selects a track.
Tuner: selects a preset station.
BASS, MID and TREBLE: adjusts the level.
Clock and Timer: sets the time.

❹ **ALBUM ∨/∧**
Selects a previous album or a succeeding album.

❺ **PLAY MODE**
CD: selects a playback mode.
Tape: selects a reverse mode

REPEAT
Enters CD repeat playback mode.

ENTER

❻ **CLOCK/TIMER/SET**
Enters timer setting mode.

CLOCK/TIMER/SELECT
Selects timer playback, timer recording or timer off.

❼ **DISPLAY**
Displays the time and the remaining time for CD.
When the unit is off, press DISPLAY to switch between DEMO, Clock and ECO display modes.

❽ **SHIFT**
Hold down when pressing a numbered button to change its function to that printed above the number.
e.g.)
"Press **SHIFT+BAND** on the remote" indicates "Hold down SHIFT and press '2' (BAND)". Doing so makes be able to select Tuner function and the radio band.

❾ **FUNCTION**
Switches the active function among CD, TAPE, TUNER and MD (VIDEO).

❿ **DISC SKIP**
Select a disc.

⓫ **►/◄►**
CD and Tape: starts playback.

■
CD and Tape: stops playback.

◄◄, ►►
CD: searches a track in fast forward or fast reverse playback when held down.
Tape: fast forwards or rewinds the tape.
Tuner: manually tunes down or up within the band.

❚❚
CD and Tape: pauses playback.

⓬ **SLEEP**
Switches the sleep-timer on/off and selects the duration.

⓭ **VOLUME (+, –)**
Adjusts the volume.

⓮ **SOUND**
Selects BASS, MID or TREBLE setting mode

CLEAR
Clears a track of the CD programmed playback and a Radio preset station.

Note **(AEP, UK and CIS models)**
The buttons not explained above (**KARAOKE**) do not operate for this unit.

Setting the clock

Use the remote.

1 Press CLOCK/TIMER/SET.
Go to step 3 when the time appears and the 'hour' flashes.

2 Press I◄◄ or ►►I repeatedly until "CLOCK" appears in the display and then press ENTER.

3 Press I◄◄ or ►►I repeatedly to set the hour and then press ENTER.

4 Press I◄◄ or ►►I repeatedly to set the minute and then press ENTER.
The time display stops flashing and the clock starts from 00 seconds.

• MULTI JOG is also available in place of I◄◄ or ►►I.

To display the time
Press DISPLAY. The time will be displayed for 6 seconds.

Tip: (Except AEP, UK and CIS models)
"AM 12:00" indicates midnight and "PM12:00" noon.

If "- -:- -" appears when the unit is turned off
There has been a power interruption. Re-set the clock.

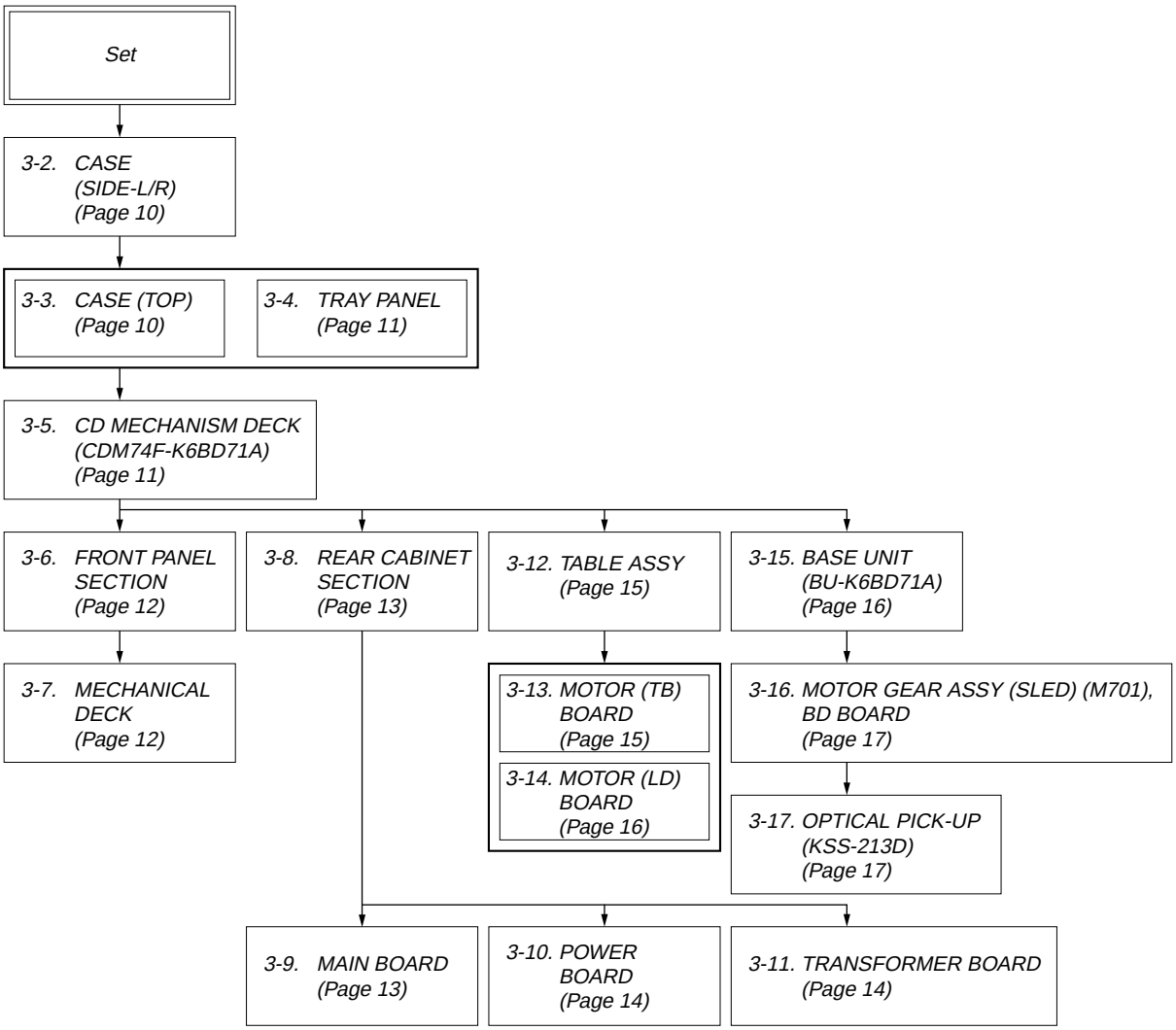
SECTION 3
DISASSEMBLY

• This set can be disassembled in the order shown below.

3-1. DISASSEMBLY FLOW

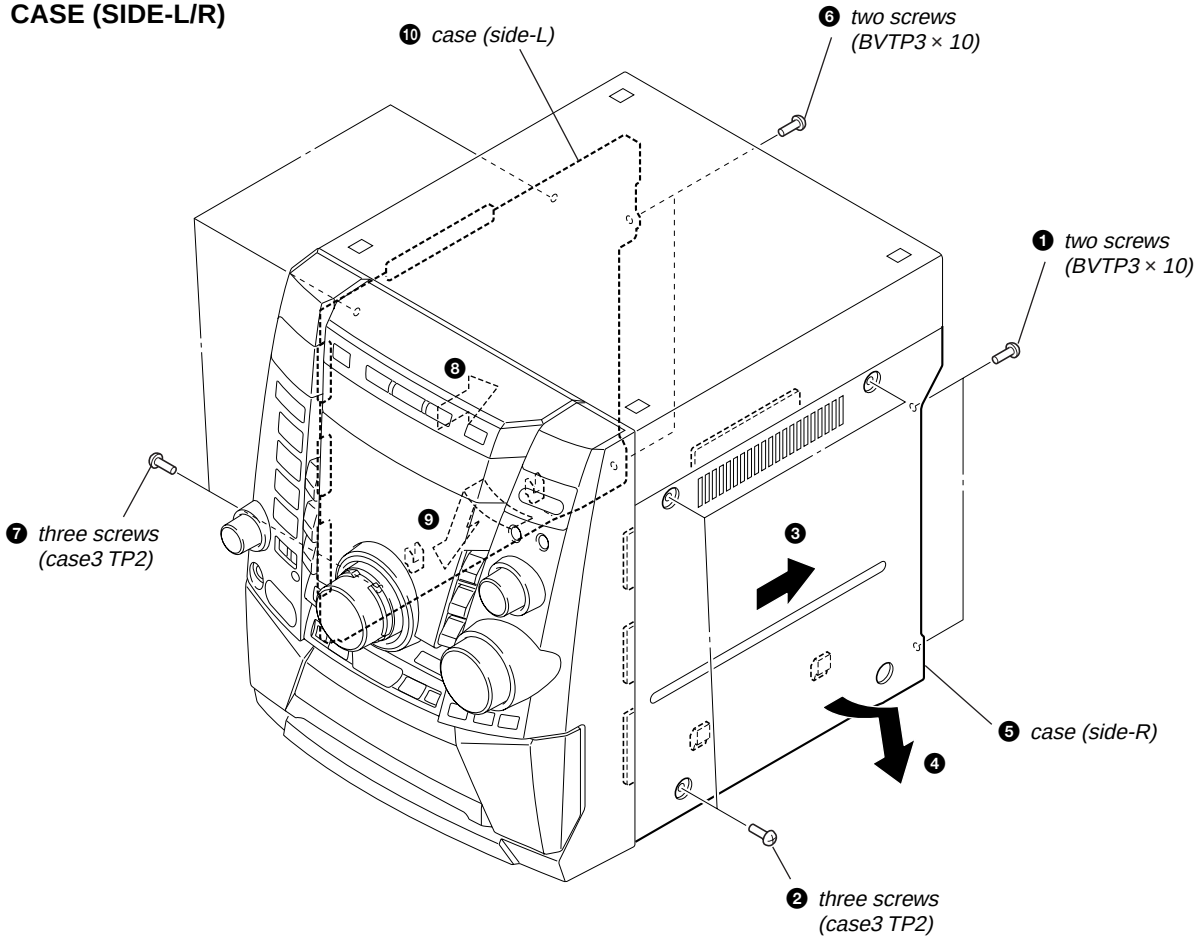
Note 1: *The process described in* ▣ *can be performed in any order.*

Note 2: *Without completing the process described in* ▣ *, the next process can not be performed.*

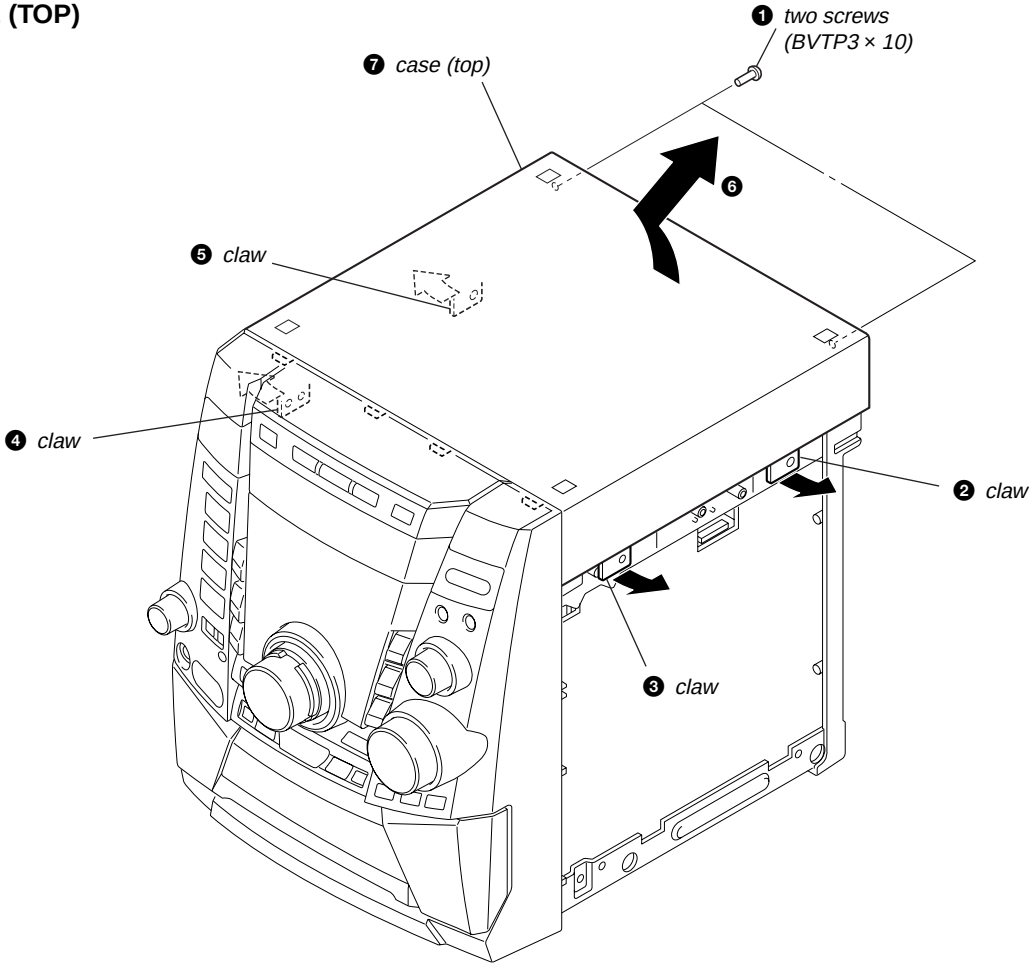

Set
3-2. CASE (SIDE-L/R) (Page 10)
3-3. CASE (TOP) (Page 10)
3-4. TRAY PANEL (Page 11)
3-5. CD MECHANISM DECK (CDM74F-K6BD71A) (Page 11)
3-6. FRONT PANEL SECTION (Page 12)
3-8. REAR CABINET SECTION (Page 13)
3-12. TABLE ASSY (Page 15)
3-15. BASE UNIT (BU-K6BD71A) (Page 16)
3-7. MECHANICAL DECK (Page 12)
3-13. MOTOR (TB) BOARD (Page 15)
3-14. MOTOR (LD) BOARD (Page 16)
3-16. MOTOR GEAR ASSY (SLED) (M701), BD BOARD (Page 17)
3-17. OPTICAL PICK-UP (KSS-213D) (Page 17)
3-9. MAIN BOARD (Page 13)
3-10. POWER BOARD (Page 14)
3-11. TRANSFORMER BOARD (Page 14)

Note: Follow the disassembly procedure in the numerical order given.

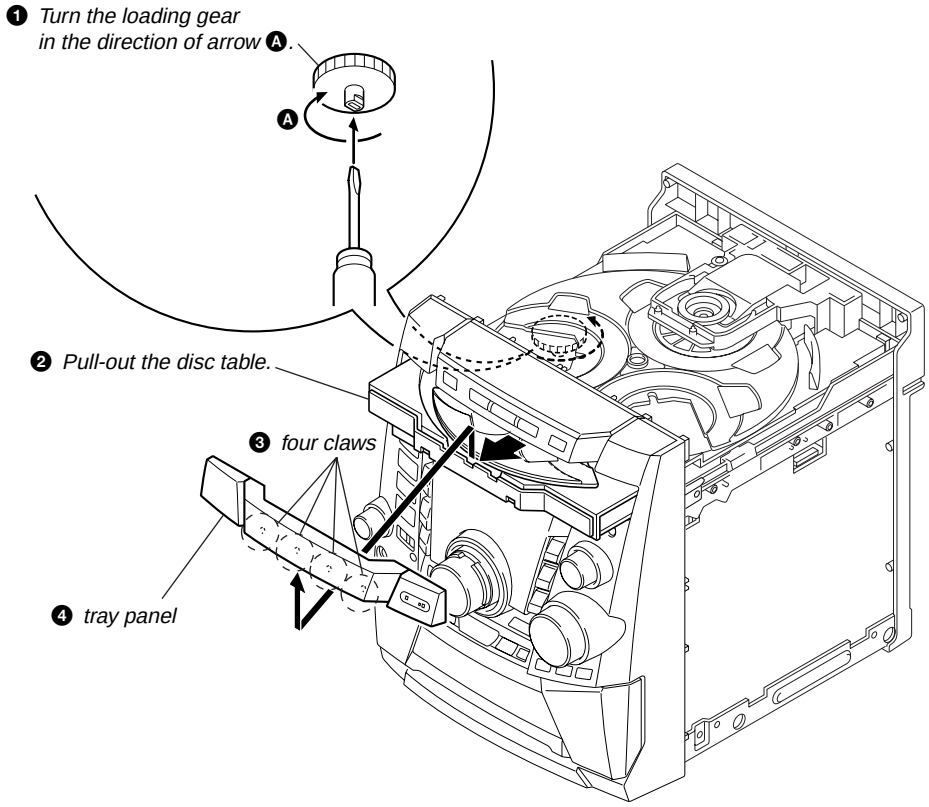
3-2. CASE (SIDE-L/R)



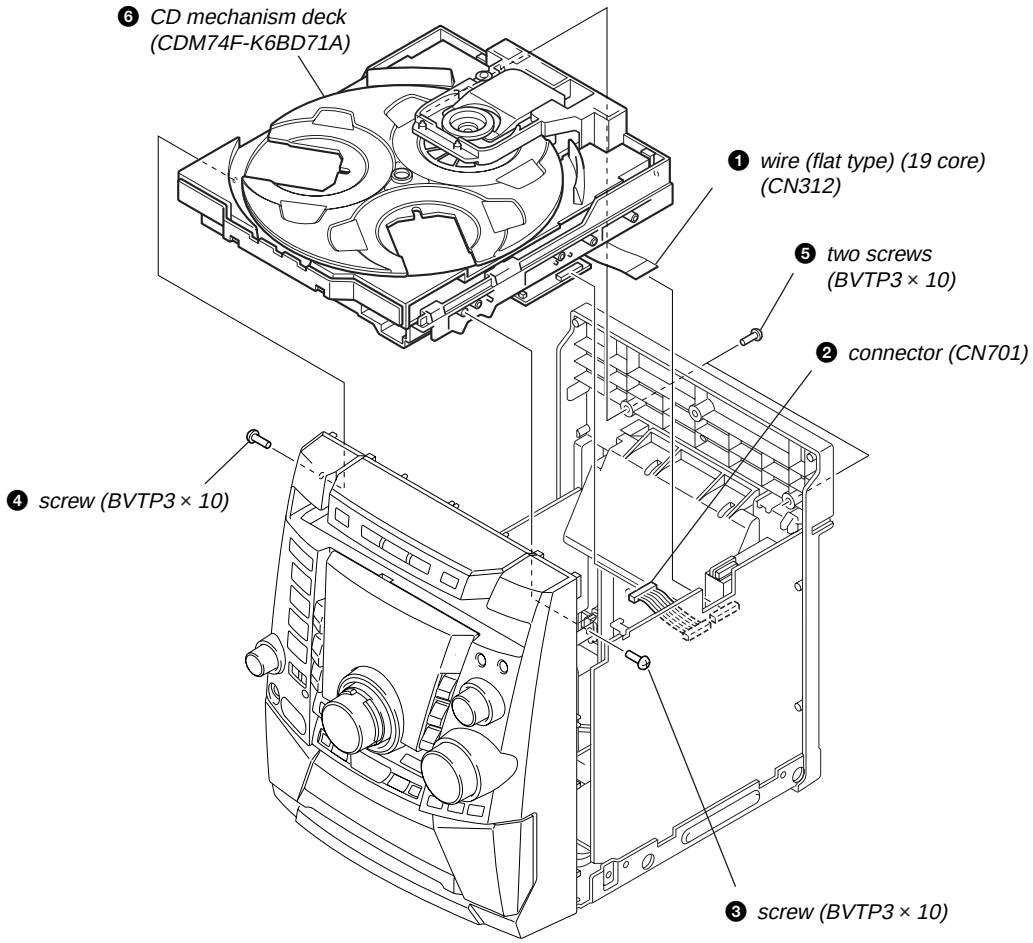
3-3. CASE (TOP)



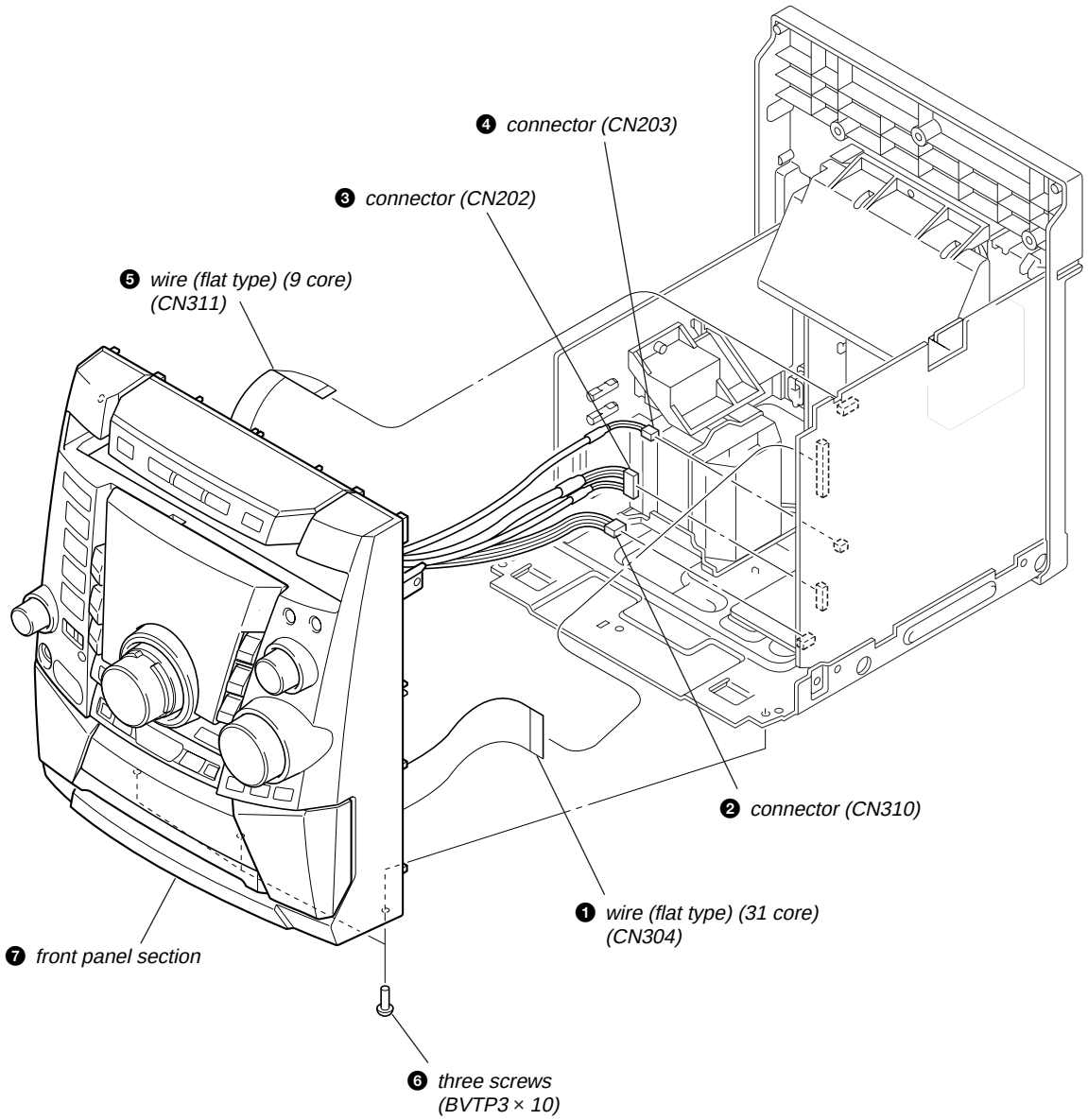
3-4. TRAY PANEL



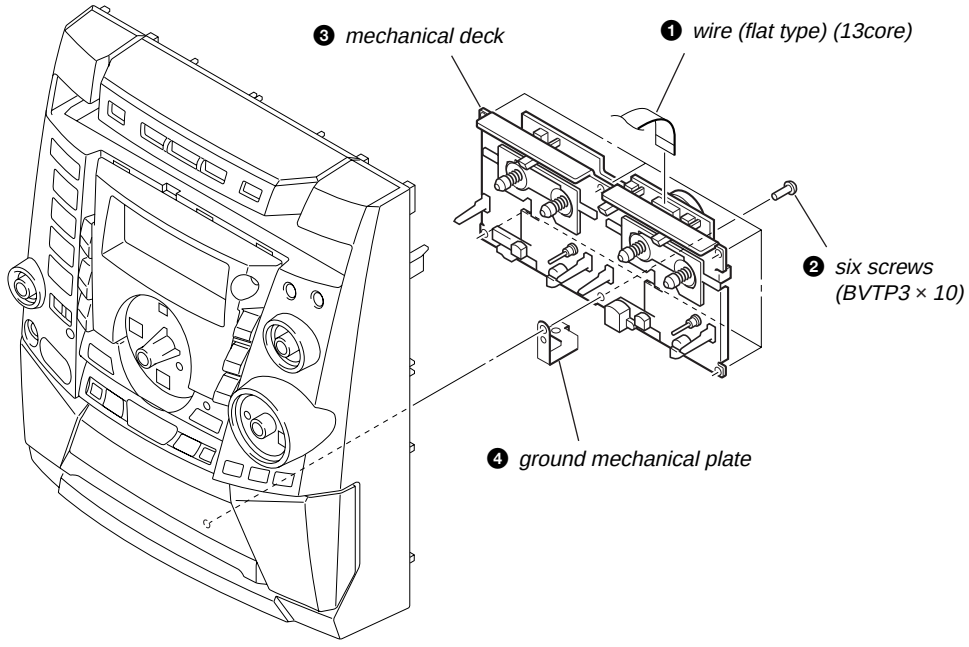
3-5. CD MECHANISM DECK (CDM74F-K6BD71A)


❻ CD mechanism deck (CDM74F-K6BD71A)
❶ wire (flat type) (19 core) (CN312)
❺ two screws (BVTP3 × 10)
❷ connector (CN701)
❹ screw (BVTP3 × 10)
❸ screw (BVTP3 × 10)

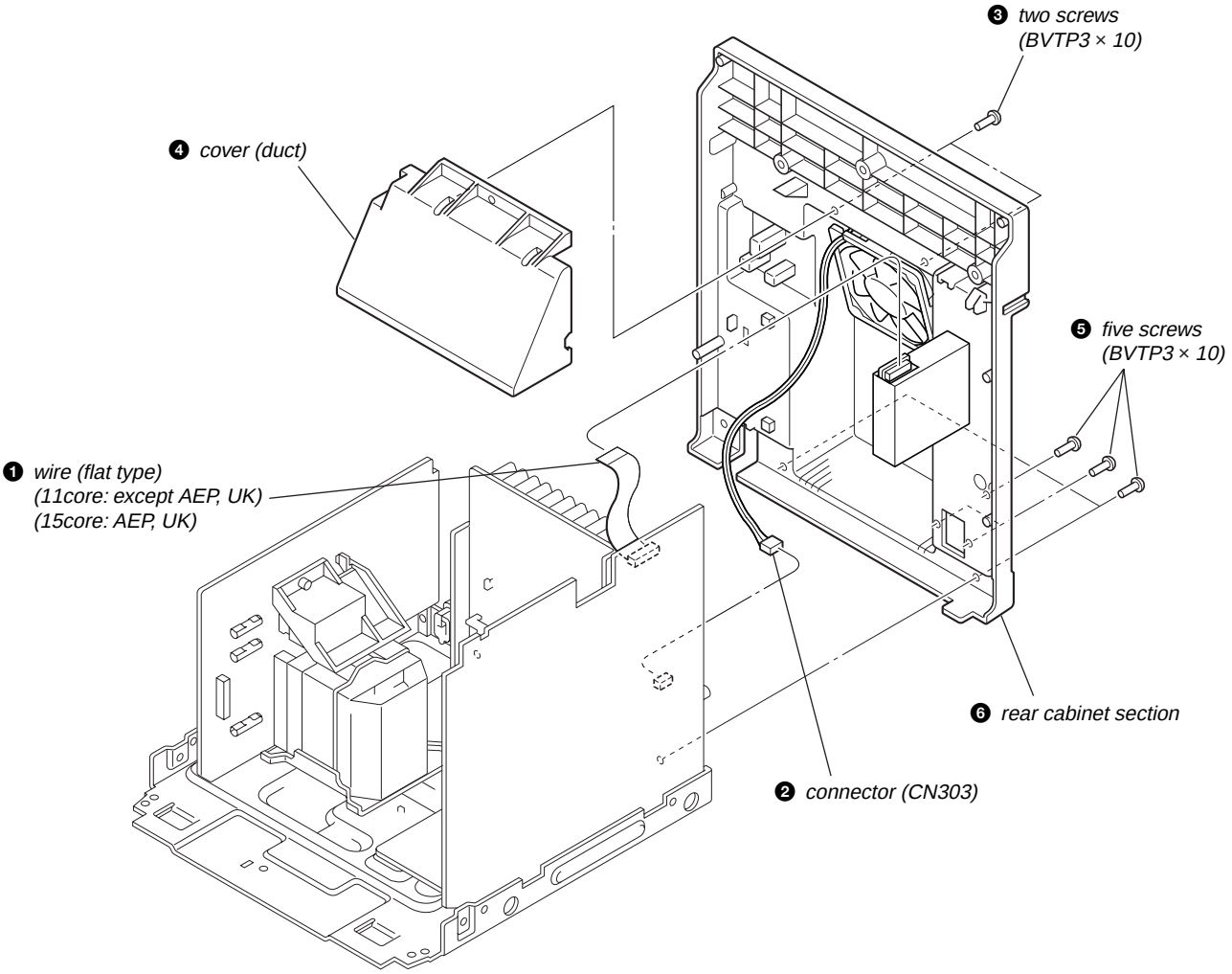
3-6. FRONT PANEL SECTION



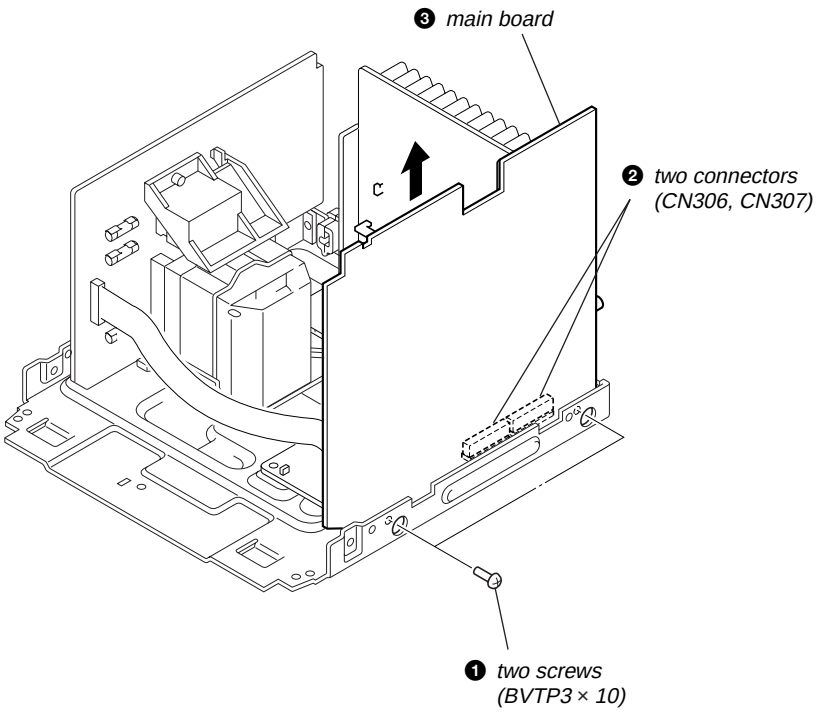
3-7. MECHANICAL DECK



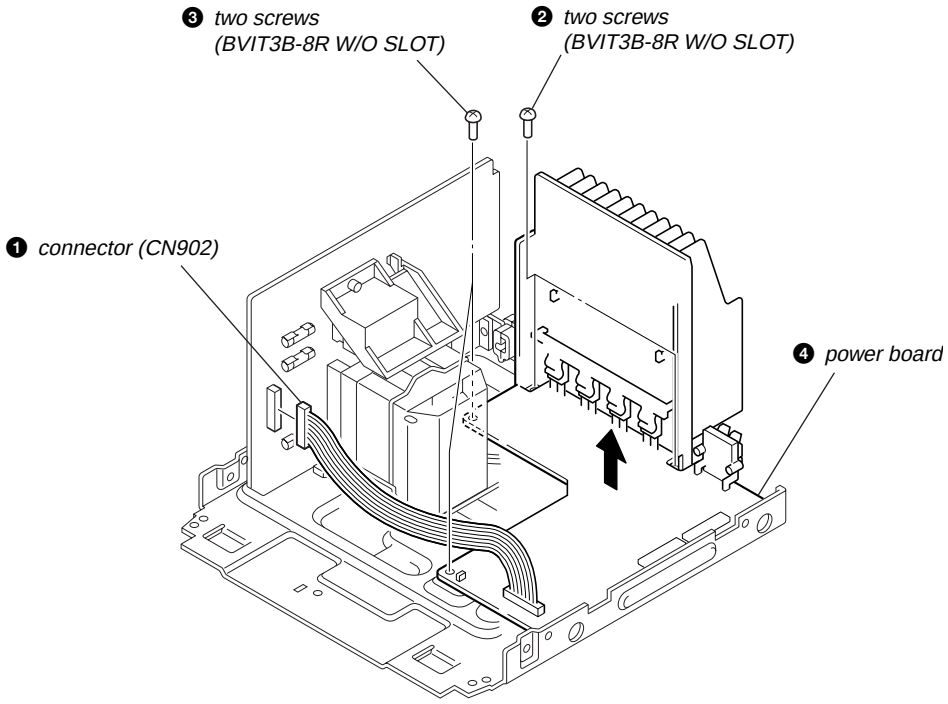
3-8. REAR CABINET SECTION



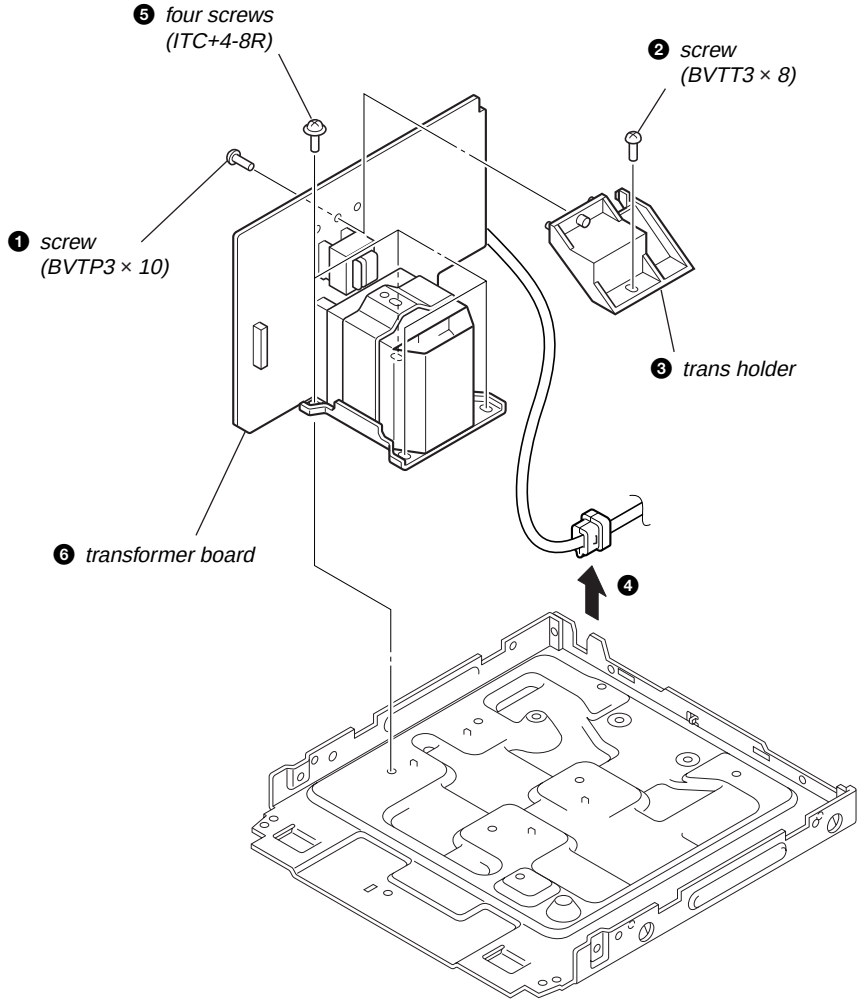
3-9. MAIN BOARD



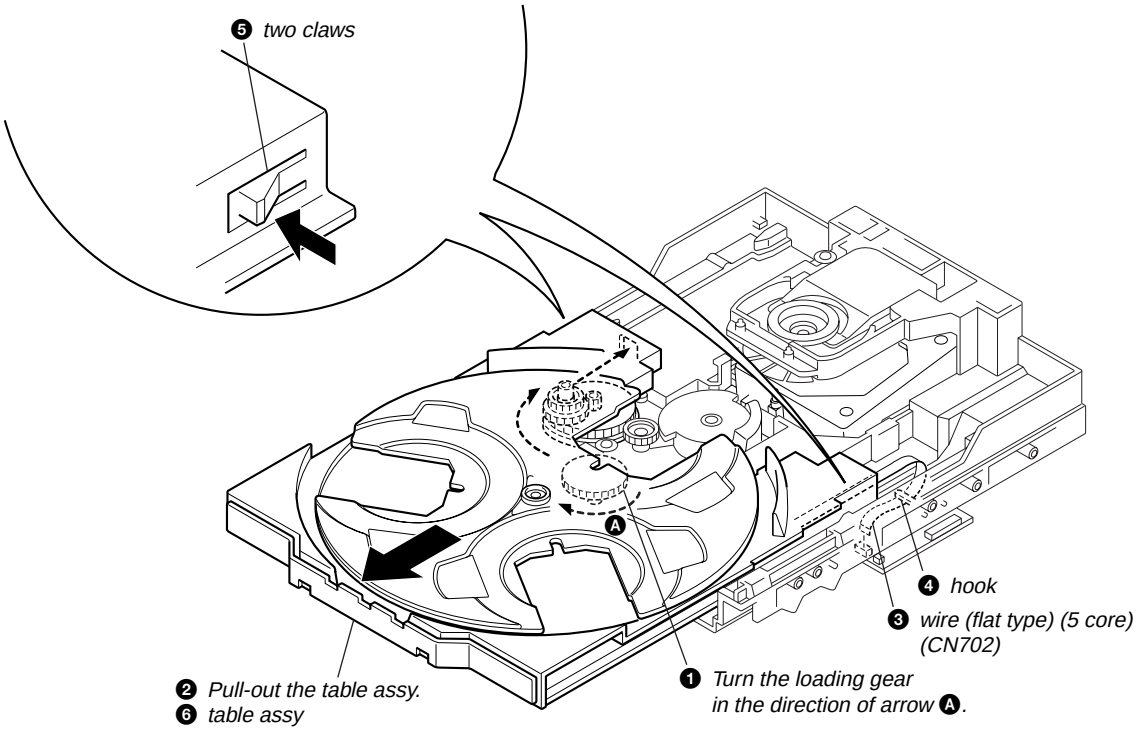
3-10. POWER BOARD



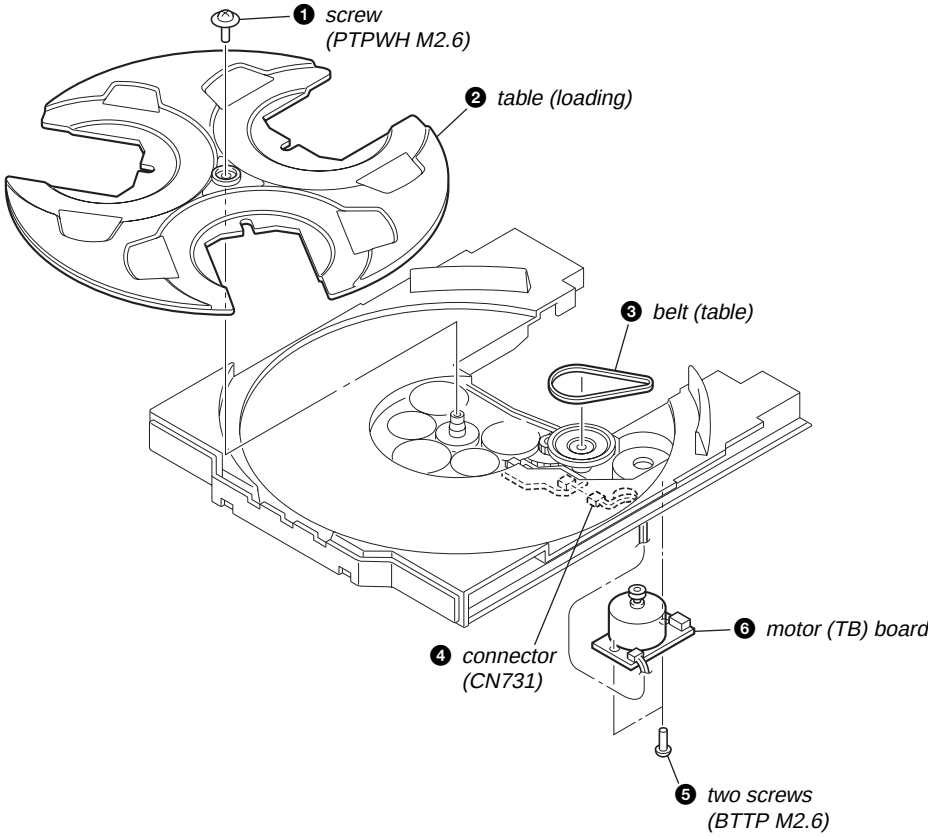
3-11. TRANSFORMER BOARD



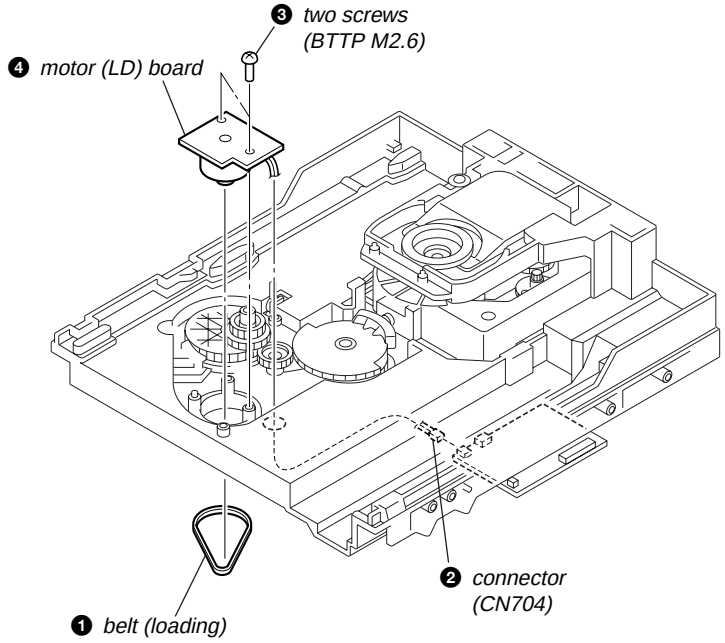
3-12. TABLE ASSY



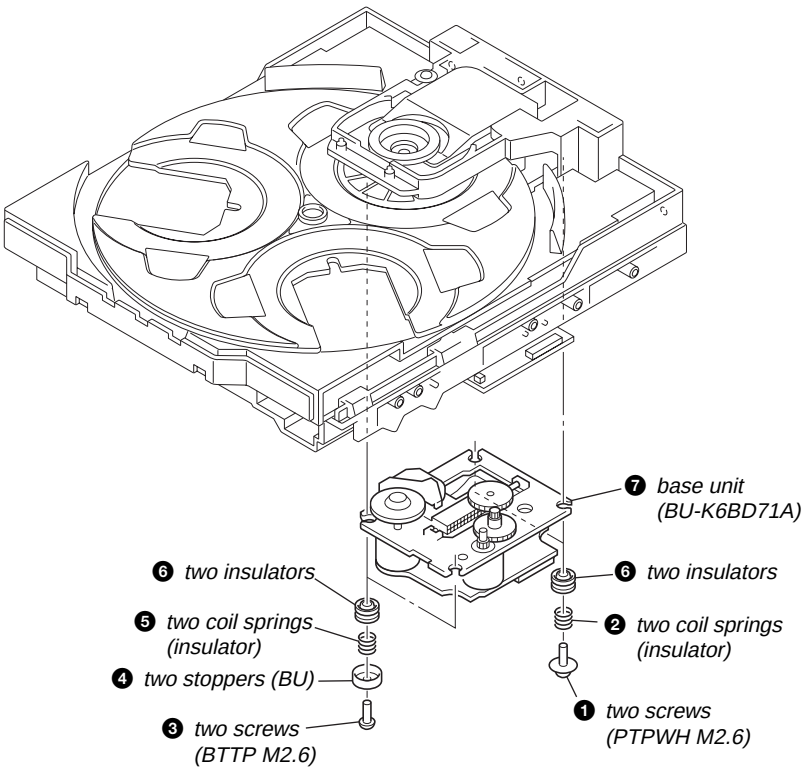
3-13. MOTOR (TB) BOARD



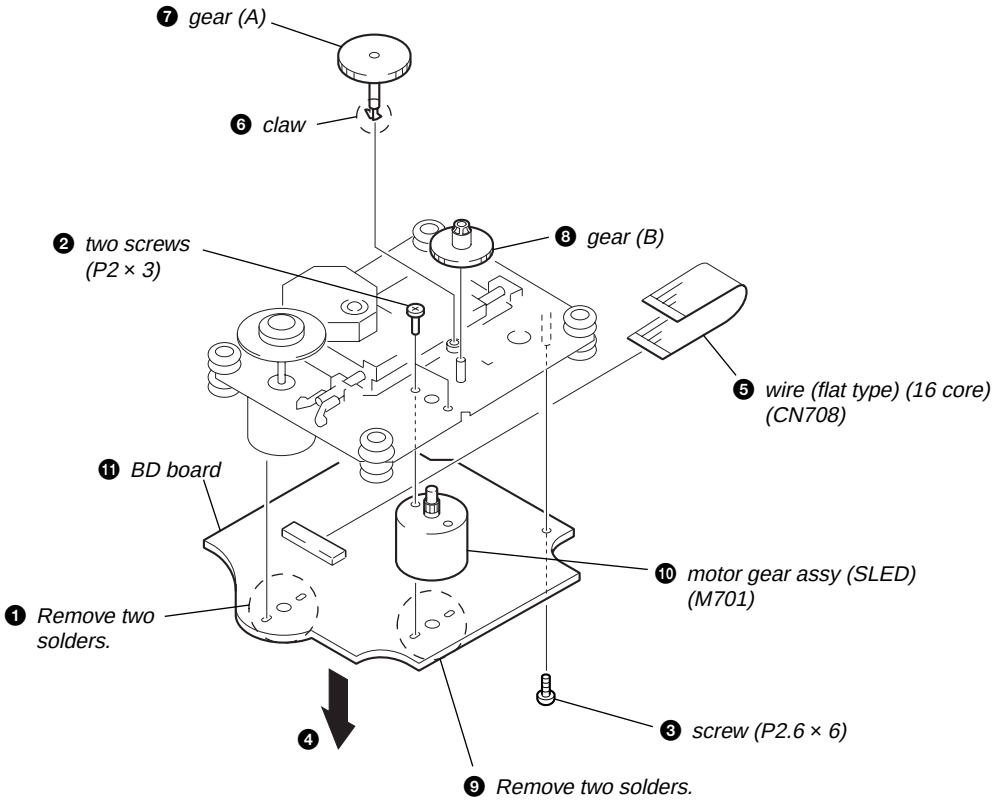
3-14. MOTOR (LD) BOARD



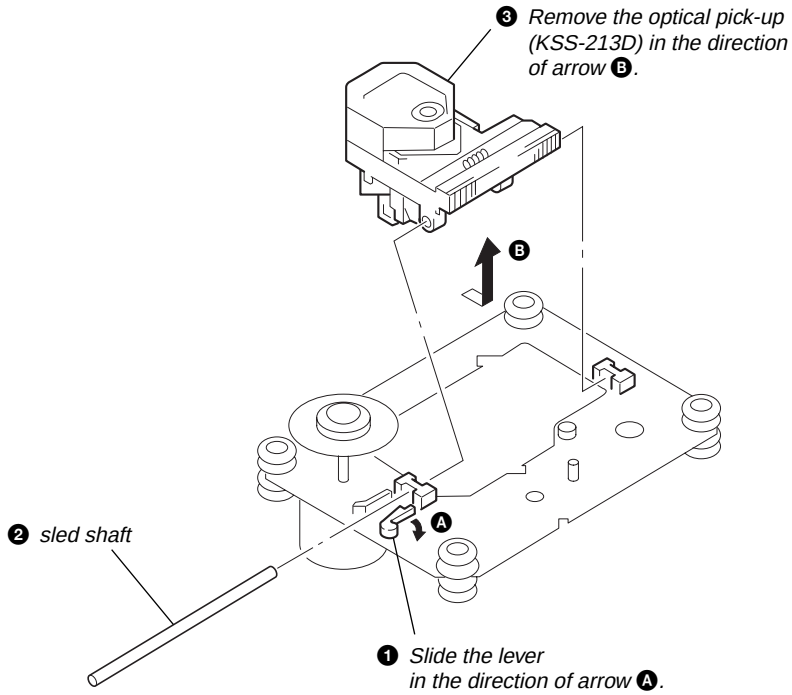
3-15. BASE UNIT (BU-K6BD71A)



3-16. MOTOR GEAR ASSY (SLED) (M701), BD BOARD


❼ gear (A)
❻ claw
❷ two screws (P2 × 3)
❽ gear (B)
❺ wire (flat type) (16 core) (CN708)
⓫ BD board
❶ Remove two solders.
⓾ motor gear assy (SLED) (M701)
❹
❸ screw (P2.6 × 6)
❾ Remove two solders.

3-17. OPTICAL PICK-UP (KSS-213D)



SECTION 4
TEST MODE

[COLD RESET]

- The cold reset clears all data including preset data stored in the RAM to initial conditions. Execute this mode when returning the set to the customer.

Procedure:

1. Press the [POWER] key to turn the power ON.
2. Press three keys of [■] , [ENTER] and [POWER] simultaneously.
3. The message "RESET" is displayed on the fluorescent indicator tube momentarily, then becomes standby states.

[TUNER STEP CHANGE-OVER] (Except AEP, UK and CIS models)

- A step of AM channels can be changed over between 9 kHz and 10 kHz.

Procedure:

1. Press the [POWER] key to turn the power ON.
2. Press the [TUNER BAND] key to select "AM".
3. Press the [POWER] key to turn the power OFF.
4. Press two keys of [ENTER] and [POWER] simultaneously.
5. The message "9K STEP" or "10K STEP" is displayed on the fluorescent indicator tube, and thus the channel step is changed over.

[CD SHIP MODE]

- This mode moves the optical pick-up to the position durable to vibration. Use this mode when returning the set to the customer after repair.

Procedure:

1. Press the [POWER] key to turn the power ON.
2. Press the [CD] key to select "CD".
3. Press two keys of [CD] and [POWER] simultaneously.
4. The message "LOCK" is displayed on the fluorescent indicator tube, and the CD ship mode is set.

[CHANGE-OVER FUNCTION OF MD/VIDEO]

- This mode is used to enable function of external input to change over between MD and VIDEO.

Procedure:

1. Set to standby state.
2. Press two keys of [MD (VIDEO)] and [POWER] simultaneously.
3. The message "MD" or "VIDEO"is displayed on the fluorescent indicator tube, and the function of external input is changed over.

[CD TRAY LOCK MODE]

- This mode is used to unable to take sample disc out of tray in the shop.

Procedure:

1. Press the [POWER] key to turn the power ON.
2. Press the [CD] key to select "CD".
3. While pressing the [■] key, press the [⏏] key for 5 seconds.
4. The message "LOCKED" is displayed on the fluorescent indicator tube and the tray is locked. (Even if pressing the [⏏] key, the message "LOCKED" is displayed on the fluorescent indicator tube and the tray is locked)
5. To release from this mode, while pressing the [■] key, press the [⏏] key for 5 seconds.
6. The message "UNLOCKED" is displayed on the fluorescent indicator tube and the tray is unlocked.

[AMP TEST MODE]

- This mode is used to set the parameter of AMP IC for adjustment of tone quality and VACS level and display VACS status.

Procedure:

1. Press the [POWER] key to turn the power ON.
2. Press three keys of [■] , [HEAVY] and [HIP POP] simultaneously.
3. When the AMP test mode is activated, the message "AMP TEST" is displayed on the fluorescent indicator tube momentarily.
4. Press two keys of [HEAVY] and [DISC DIRECT PLAY 2] simultaneously, mode is changed over to parameter setting of AMP IC and display of VACS status.
5. When the VACS ON, the message "V2255255" is displayed on the fluorescent indicator tube, and when the VACS OFF, the message "2255255" is displayed on the fluorescent indicator tube.
6. Press the [VOCAL] key, DBFB ON/OFF is changed over.
7. Press the [ENTER] key, surround ON/OFF is changed over.
8. Press the [MANUAL] key, EQ band is changed over to LOW, MID or HIGH.
9. Press the [HIP POP] and [TECHNO] key, EQ curve adjustment value is changed over between –8dB to +8dB.
10. To release from this mode, press two keys of [HEAVY] and [TECHNO] simultaneously.

[AGING MODE]

- This mode can be used for operation check of CD section and tape deck section.
  CD section and tape deck section work in parallel.

If an error occurred:

The aging operation stops only an error occurred sections and display then status.

If no error occurs:

The aging operation continues repeatedly.

Procedure:

1. Press the [POWER] key to turn the power ON.
2. Press the [CD] key to select "CD".
3. Set disc on the tray and set tape into the deck.
4. Set the "ALL DISCS" mode and "REV OFF" mode.
5. Press three keys of [■] , [HEAVY] and [DISC CHANGE/DISC SKIP] simultaneously.
6. The message "AGING" is displayed on the fluorescent indicator tube momentarily, then aging operations of CD and tape are started at the same time.
7. To release from this mode, operate the "COLD RESET".

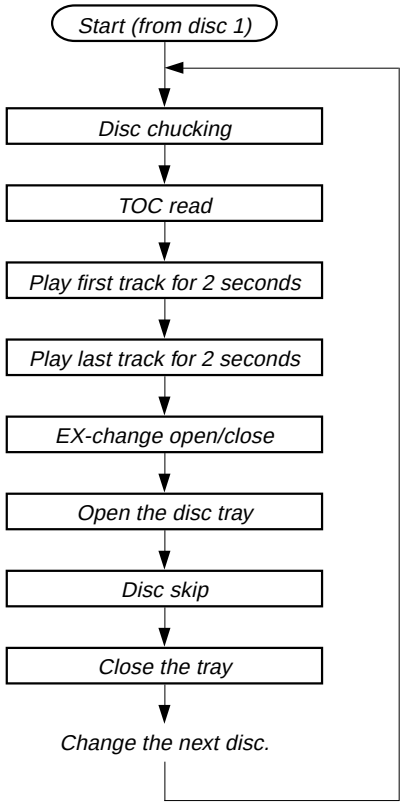
1. Display at the Aging Mode

Display operating state of CD section and tape deck section alternately.
If an error occurred, stop display which that section.

2. CD Section

The sequence during the aging mode is following as below.
Display at the aging mode is the same as the normal operation.

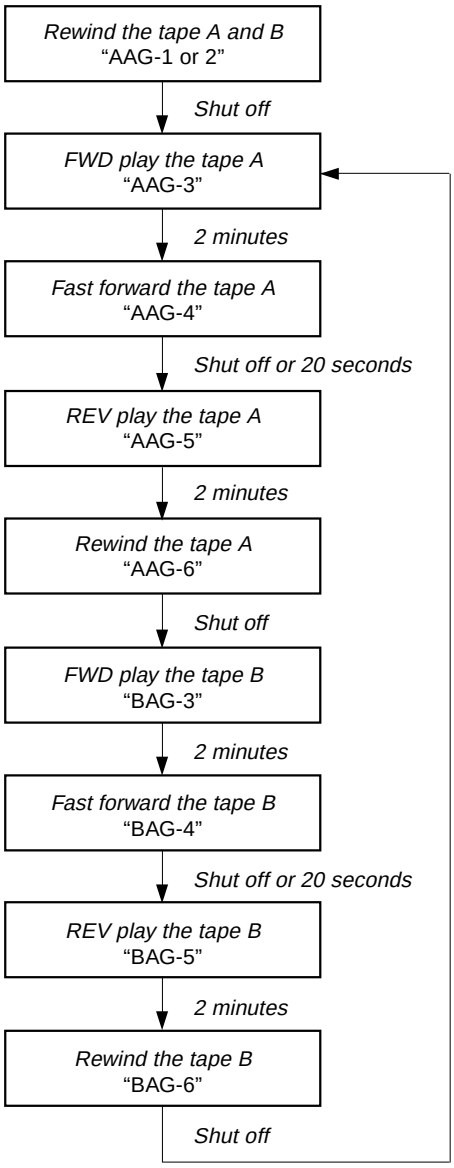
Aging mode sequence (CD section) :



3. Tape Deck Section

The sequence during the aging mode is following as below.
If an error occurred, stop display that step.

Aging mode sequence (tape deck section) :



Note: "∗AG-∗" is display of each step.

[GC TEST MODE]

• This mode is used to check the fluorescent indicator tube, LED and key.

Procedure:

1. Press the [POWER] key to turn the power ON.
2. Press three keys of [■] , [HEAVY] and [DISC DIRECT PLAY 2] simultaneously.
3. Fluorescent indicator tube and LEDs are all turned ON.
4. Press two keys of [HEAVY] and [DISC DIRECT PLAY 2] simultaneously, mode is changed over.
5. In the key check mode, press each key, the defined key number of every each key list is displayed on the fluorescent indicator tube.
6. In the key count check mode, "K-CNT 0" is displayed on the fluorescent indicator tube. Each time a key is pressed, "K" value increases. However, once a key is pressed, it is no longer taken into account.
7. In the headphone input check mode, connect the headphone, the message "H_P ON" is displayed on the fluorescent indicator tube, and disconnect the headphone, the message "H_P OFF" is displayed on the fluorescent indicator tube.
8. In the volume check mode, turn the [VOLUME] knob, the display on the fluorescent indicator tube is changed over to "VOL UP", "VOL FLAT" or "VOL DOWN"

[MC TEST MODE]

• This mode is used to check operations of Amplifier.

Procedure:

1. Press the [POWER] key to turn the power ON.
2. Press three keys of [■] , [HEAVY] and [DISC DIRECT PLAY 3] simultaneously.
3. When the MC test mode is activated, the message "MC MODE" is displayed on the fluorescent indicator tube momentarily, then VACS level is displayed on the fluorescent indicator tube.
4. Press the [TECHNO] key, the display on the fluorescent indicator tube is changed over to "EQ MAX", press the [MANUAL] key, the display on the fluorescent indicator tube is changed over to "EQ MID", press the [HIP POP] key, the display on the fluorescent indicator tube is changed over to "EQ MIN",
5. Turn the [VOLUME] knob, the display on the fluorescent indicator tube is changed over to "VOL MAX", "VOL MID" or "VOL MIN"
6. Press the [ENTER] key, VACS ON/OFF is changed over.
7. When the [REC PAUSE/START] key is pressed with a tape set in the deck-B, the function is switched "MD" or "VIDEO" and recording starts. When the [◀◀] or [▶▶] key is pressed during recording, the tape is rewound back to the beginning of recording, the function is switched to "TAPE B", then playback starts.
8. When the [CD SYNC] key is pressed with the test tape (AMS-100, AMS-110A) in the deck, number of space between tunes is counted, then if AMS-110A is set, "OK" is displayed on the fluorescent indicator tube and if AMS-100 is set, "NG" is displayed on the fluorescent indicator tube.
9. To release from this mode, press the [POWER] key.

[MODEL, DESTINATION AND VERSION DISPLAY]

• This mode is used to check the model, destination and software version.

Procedure:

1. Set to the standby state.
2. Press three keys of [■] , [TECHNO] and [HEAVY] simultaneously.
3. When the model, destination and version display mode is activated, the model an destination is displayed on the fluorescent indicator tube.
4. Press two keys of [HEAVY] and [DISC DIRECT PLAY 2] simultaneously, mode is changed over to model and destination display mode and version display mode.
5. In the version display mode, press the [DISC DIRECT PLAY 3] key, display is changed over to version display and year, month and day of the software creation display.
6. To release from this mode, press the two keys of [TECHNO] and [HEAVY] simultaneously.

[CD ERROR CODE DISPLAY]

• This mode can be used for error display of CD section.

Procedure:

1. Press the [POWER] key to turn the power ON.
2. Press the [CD] key to select "CD".
3. Press three keys of [■] , [HEAVY] and [DISC DIRECT PLAY 1] simultaneously.

Note: Error code is not displayed on the liquid crystal display.

[CD SERVICE MODE]

• This mode can run the CD sled motor freely. Use this mode, for instance, when cleaning the optical pick-up.

Procedure:

1. Press the [POWER] key to turn the power ON.
2. Press the [CD] key to select "CD".
3. Press three keys of [■] , [HEAVY] and [⏏] simultaneously.
4. When the CD service mode is activated, the message "TRVS ON" is displayed on the fluorescent indicator tube.
5. Press the [▶▶] key, optical pick-up move to outside track and the message "SLED OUT" is displayed on the fluorescent indicator tube.
6. Press the [◀◀] key, optical pick-up move to inside track and the message "SLED IN" is displayed on the fluorescent indicator tube..
7. Press the [TECHNO] key, traverse ON/OFF is changed over.

[5 REPEAT LIMIT CANCEL]

• Number of repeat for CD playback is 5 times when the repeat mode is "REPEAT". This mode is used to enables CD to repeat playback for limitless times.

Procedure:

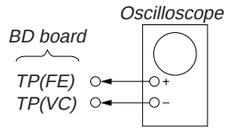
1. Press the [POWER] key to turn the power ON.
2. Press the [CD] key to select "CD".
3. Press three keys of [■] , [HEAVY] and [◀▶] simultaneously.

SECTION 5
ELECTRICAL ADJUSTMENTS

CD SECTION

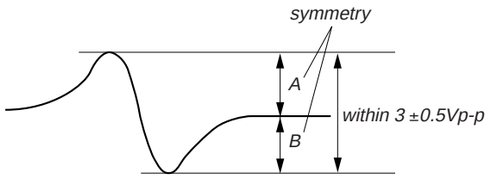
Note:
1. CD Block is basically designed to operate without adjustment. Therefore, check each item in order given.
2. Use YEDS-18 (3-702-101-01) unless otherwise indicated.
3. Use an oscilloscope with more than 10MΩ impedance.
4. Clean the object lens by an applicator with neutral detergent when the signal level is low than specified value with the following checks.

S-CURVE CHECK



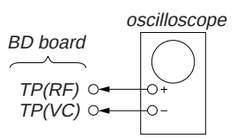
Procedure :
1. Connect an oscilloscope to TP (FE) and TP (VC).
2. Turn the power on.
3. Load a disc (YEDS-18) and actuate the focus search. (In consequence of open and close the disc tray, actuate the focus search)
4. Confirm that the oscilloscope waveform (S-curve) is symmetrical between A and B. And confirm peak to peak level within 3 ± 0.5 Vp-p.

S-curve waveform



Note:
- Try to measure several times to make sure than the ratio of A : B or B : A is more than 10 : 7.
- Take sweep time as long as possible and light up the brightness to obtain best waveform.

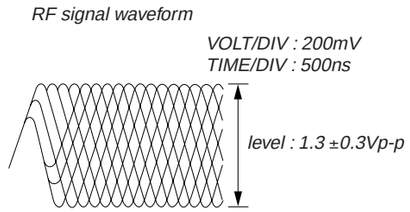
RF LEVEL CHECK



Procedure :
1. Connect an oscilloscope to TP (RF) and TP (VC).
2. Turn the power on.
3. Load a disc (YEDS-18) and playback.
4. Confirm that oscilloscope waveform is clear and check if RF signal level is correct or not.

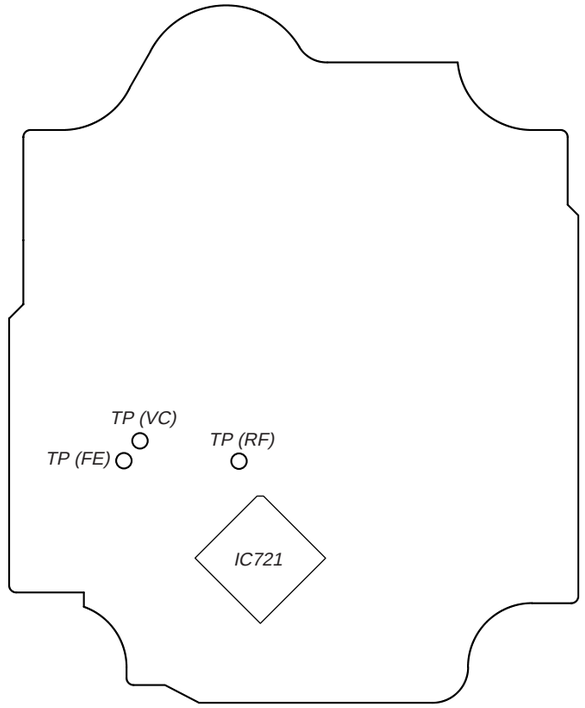
Note: Clear RF signal waveform means that the shape " ◊ " can be clearly distinguished at the center of the waveform.

RF signal waveform



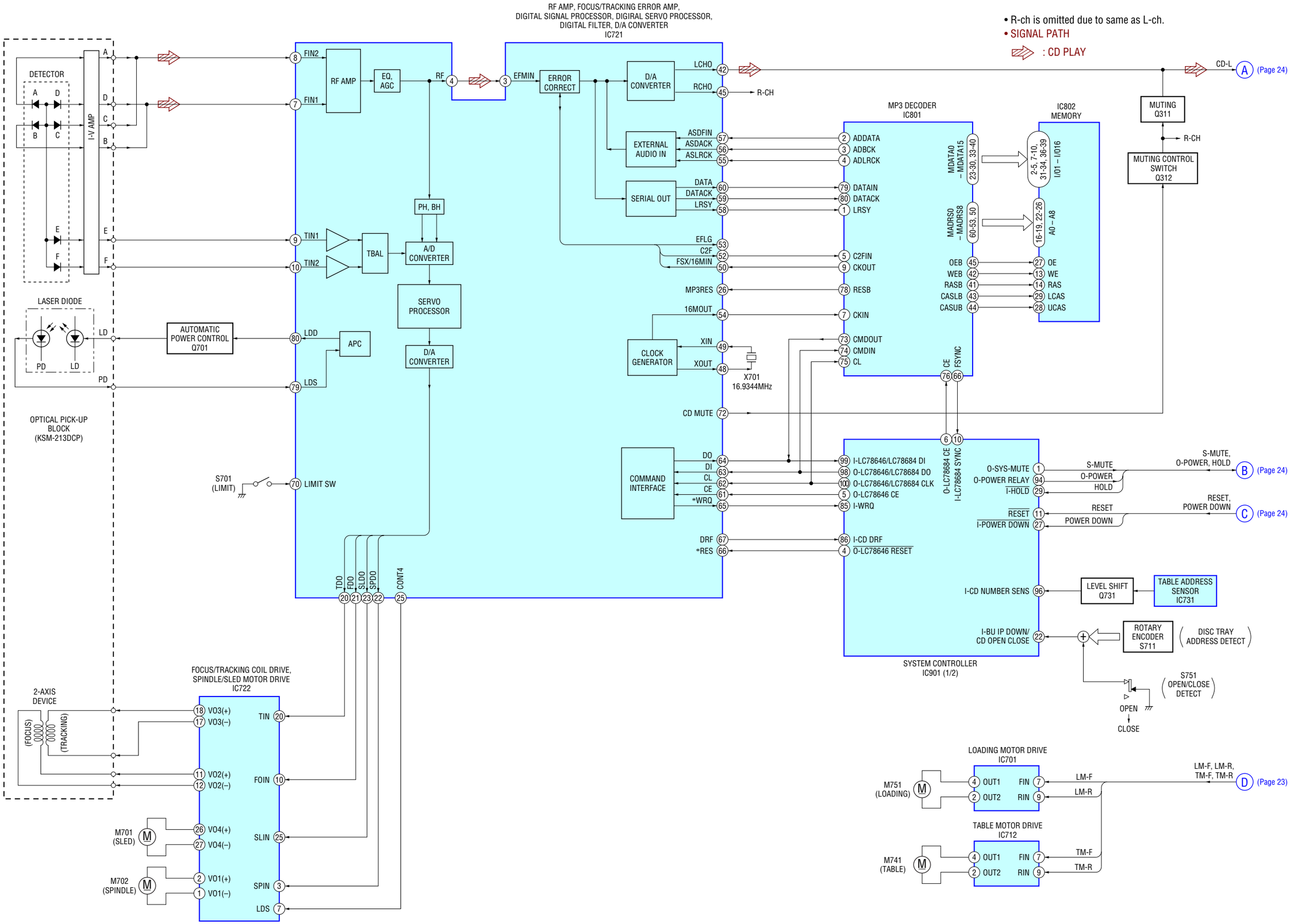
Connecting Location: BD board

– BD Board (Conductor side) –

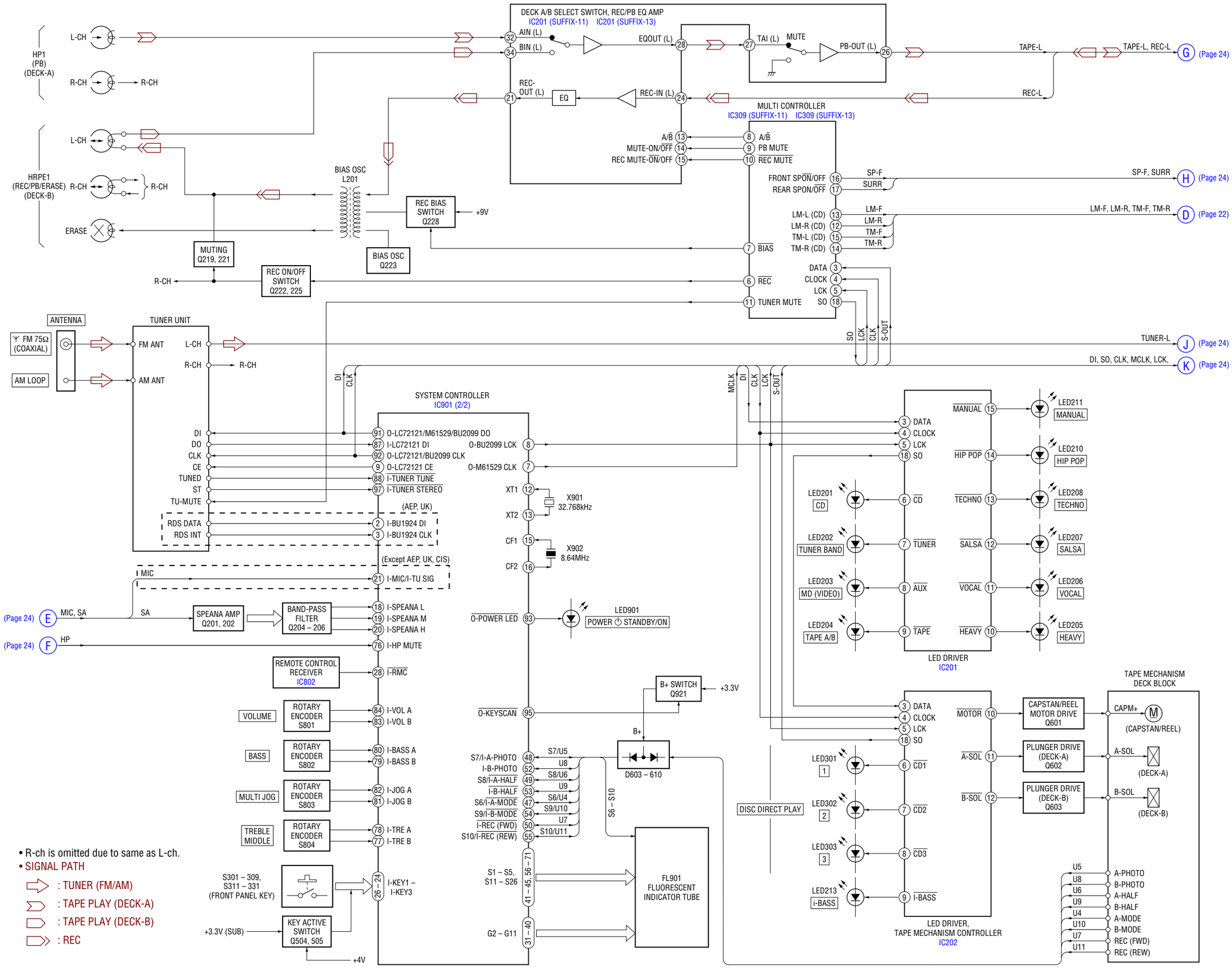


SECTION 6
DIAGRAMS

6-1. BLOCK DIAGRAM – CD Section –

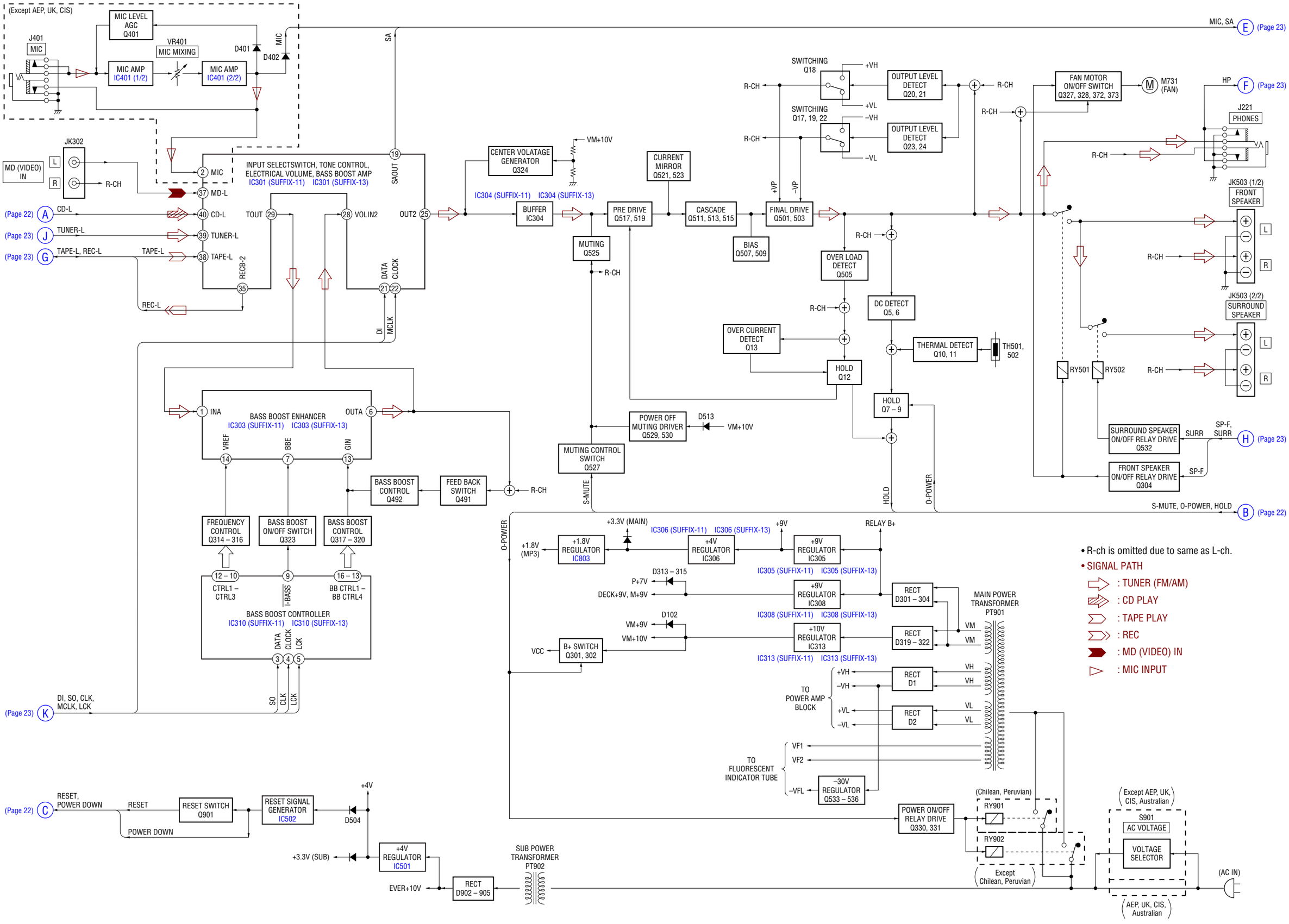


6-2. BLOCK DIAGRAM – TUNER/TAPE/PANEL Section –



- R-ch is omitted due to same as L-ch.
- SIGNAL PATH
  - : TUNER (FM/AM)
  - : TAPE PLAY (DECK-A)
  - : TAPE PLAY (DECK-B)
  - : REC

6-3. BLOCK DIAGRAM – AMP/POWER SUPPLY Section –



6-4. NOTE FOR PRINTED WIRING BOARDS AND SCHEMATIC DIAGRAMS

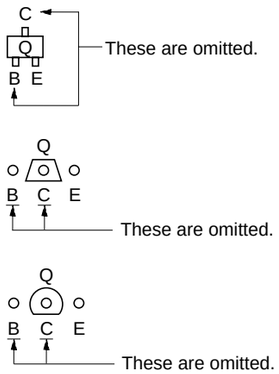
Note on Printed Wiring Board:

- ○——— : parts extracted from the component side.
- ——— : parts extracted from the conductor side.
- ▬ : Pattern from the side which enables seeing.

(The other layers' patterns are not indicated.)

Caution:	
Pattern face side: (Conductor Side)	Parts on the pattern face side seen from the pattern face are indicated.
Parts face side: (Component Side)	Parts on the parts face side seen from the parts face are indicated.

- Indication of transistor.



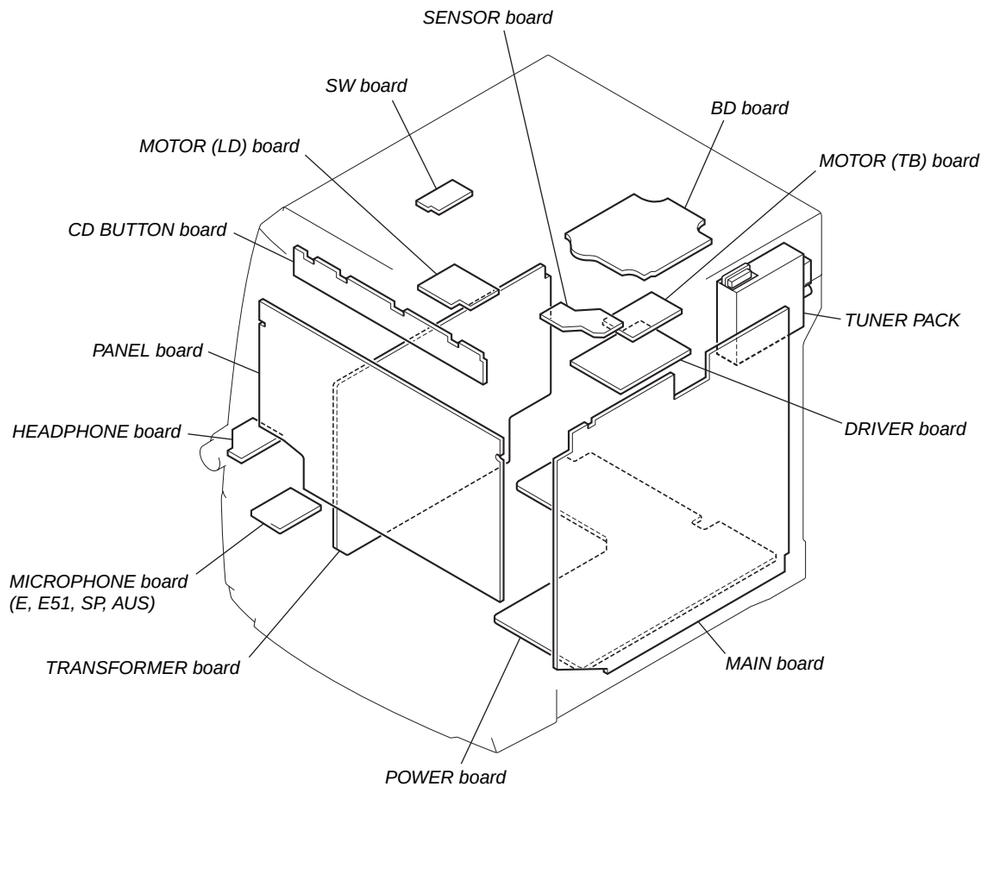
Note on Schematic Diagram:

- All capacitors are in μF unless otherwise noted. pF: μμF 50 WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in Ω and 1/4 W or less unless otherwise specified.
- : nonflammable resistor.
- : panel designation.

Note: The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

- ▬▬ : B+ Line.
- ▬ ▬ ▬ : B– Line.
- Voltages and waveforms are dc with respect to ground under no-signal (detuned) conditions.
  no mark : FM
  ( ) : CD PLAY
  [ ] : TAPE PLAY (DECK-A)
  { } : TAPE PLAY (DECK-B)
  ⟨⟨ ⟩⟩ : REC
  ✻ : Impossible to measure
- Voltages are taken with a VOM (Input impedance 10 MΩ). Voltage variations may be noted due to normal production tolerances.
- Waveforms are taken with a oscilloscope. Voltage variations may be noted due to normal production tolerances.
- Circled numbers refer to waveforms.
- Signal path.
  : TUNER (FM/AM)
  : CD PLAY
  : TAPE PLAY (DECK-A)
  : TAPE PLAY (DECK-B)
  : REC
  : MD (VIDEO) IN
  : MIC INPUT
- Abbreviation
  AUS : Australian model
  E51 : Chilean and Peluvian models
  SP : Singapore model

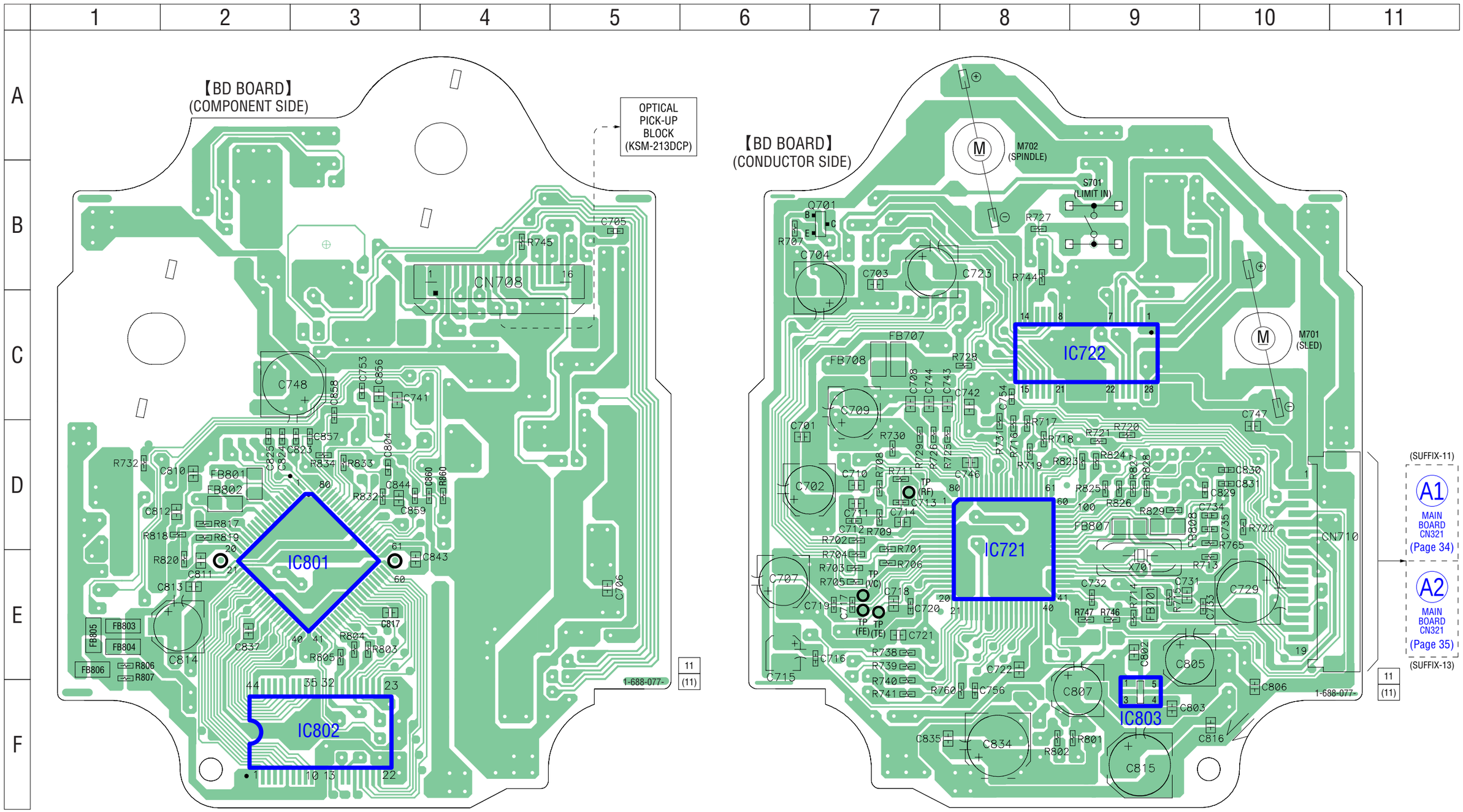
- **Circuit Boards Location**



6-5. PRINTED WIRING BOARD – BD Board –

• See page 25 for Circuit Boards Location.

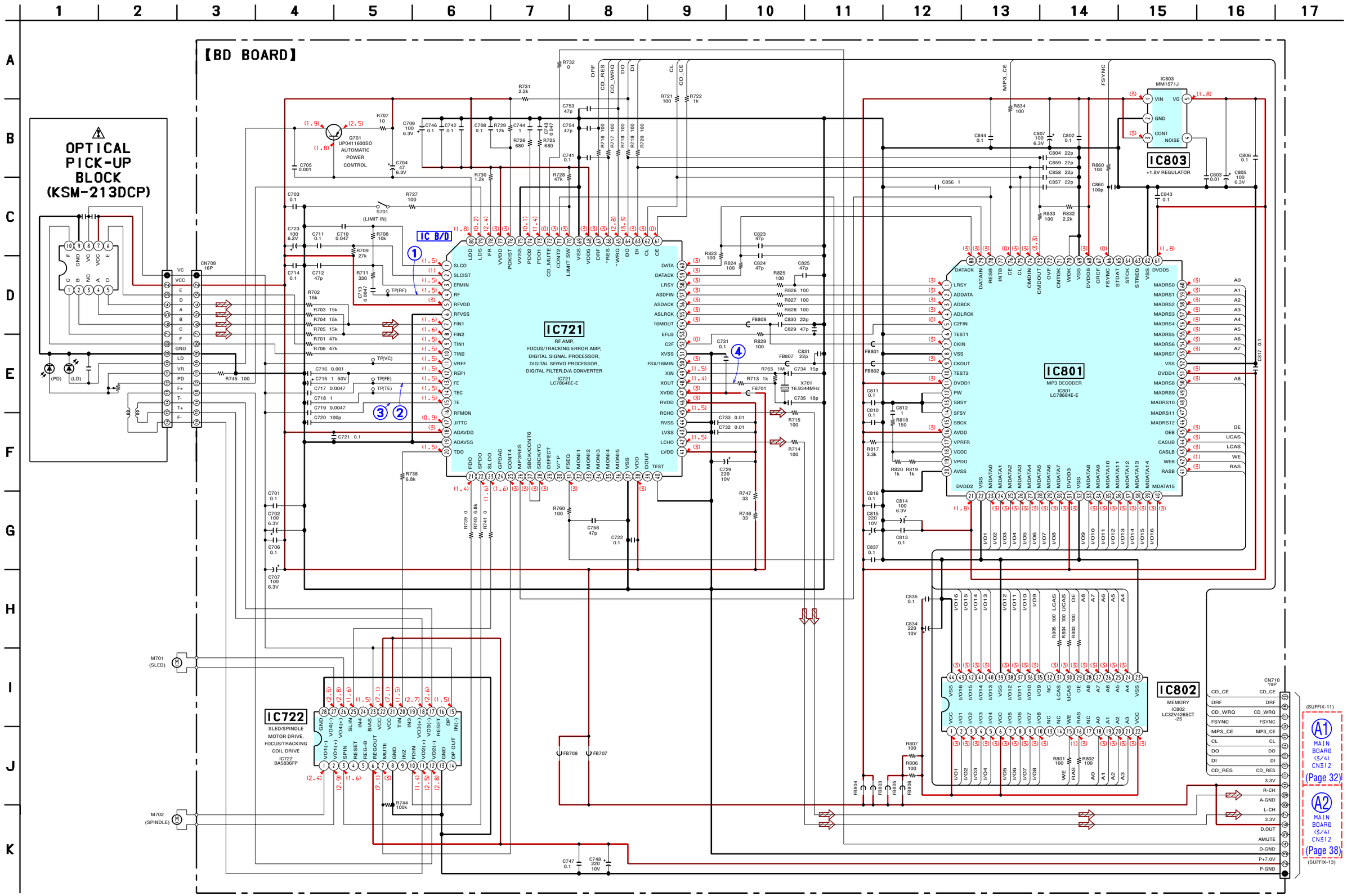
:Uses unleaded solder.



• **Semiconductor Location**

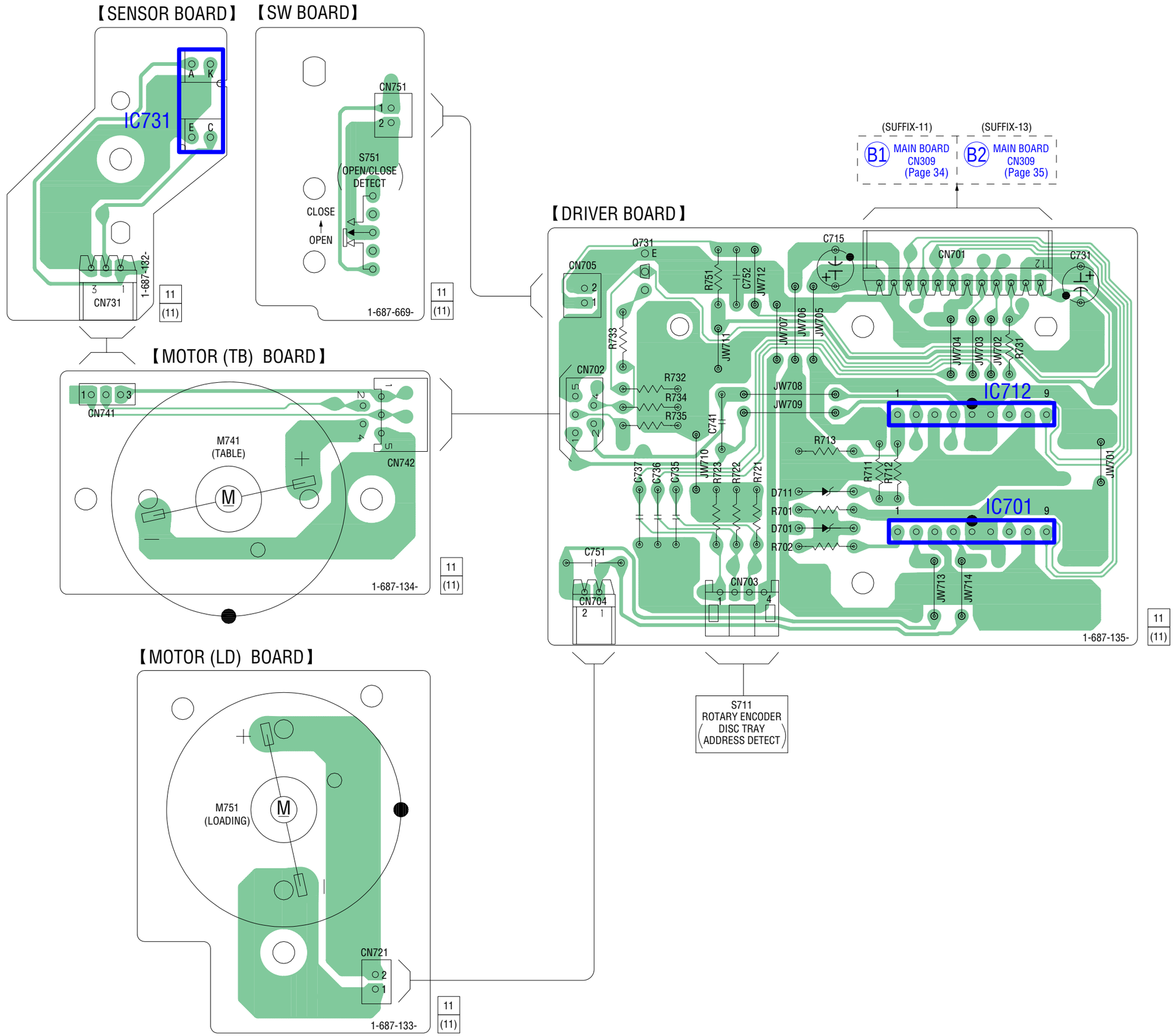
Ref. No.	Location
IC721	D-8
IC722	C-9
IC801	E-3
IC802	F-3
IC803	F-9
Q701	B-7

6-6. SCHEMATIC DIAGRAM – BD Board – • See page 52 for IC Block Diagrams. • See page 52 for Waveforms.

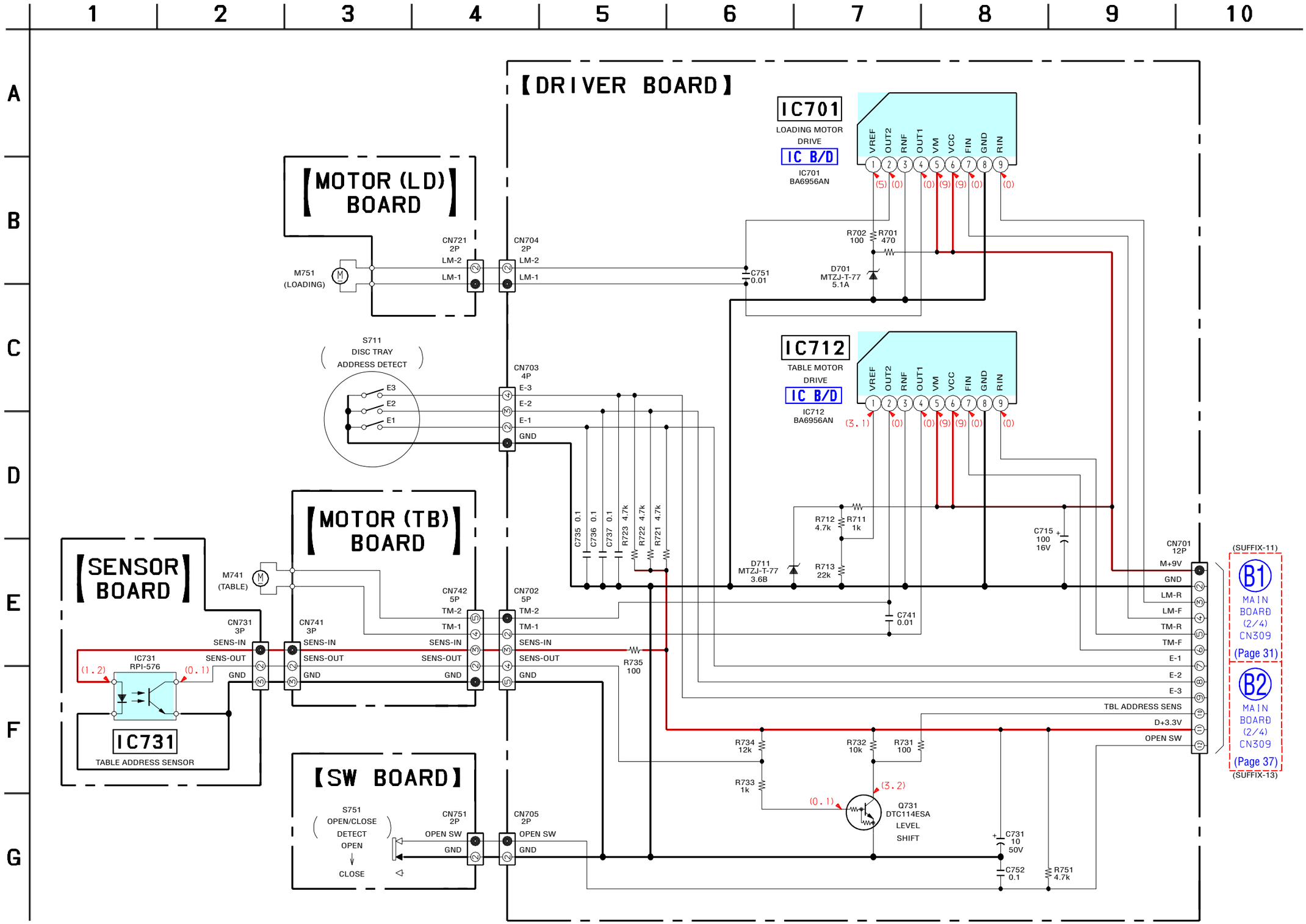


The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

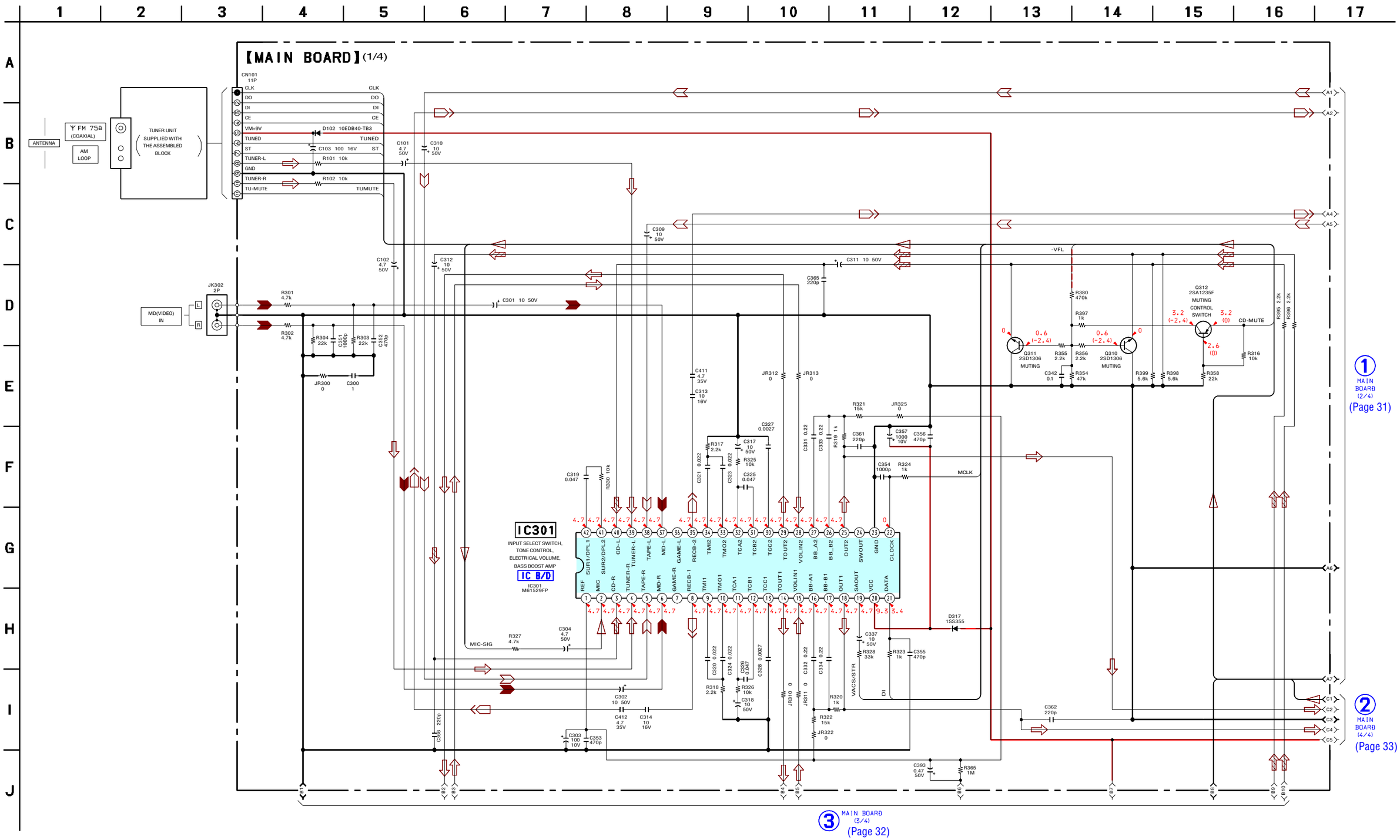
6-7. PRINTED WIRING BOARDS – CHANGER Section – • See page 25 for Circuit Boards Location. :Uses unleaded solder.



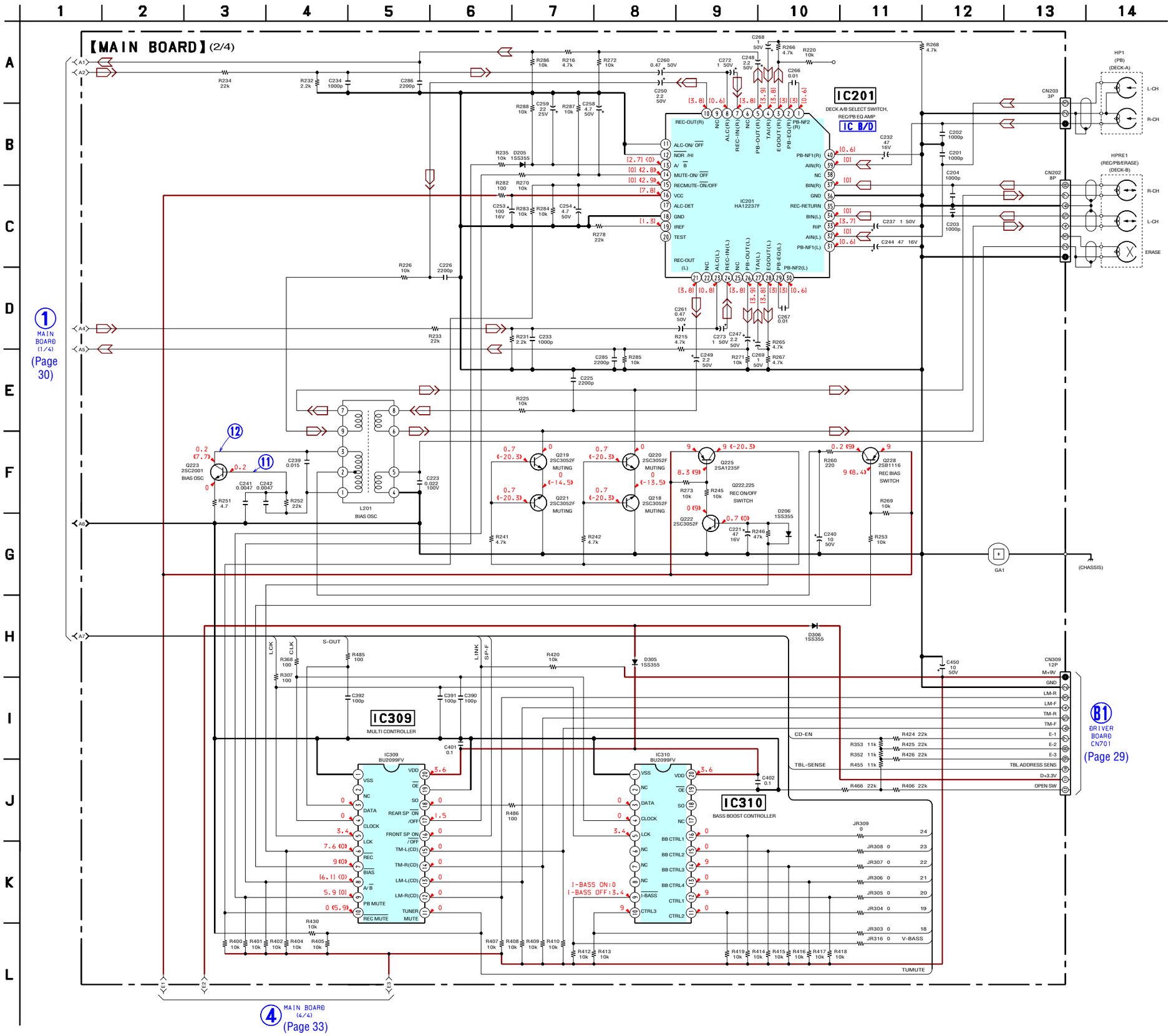
6-8. SCHEMATIC DIAGRAM – CHANGER Section – • See page 52 for IC Block Diagrams.



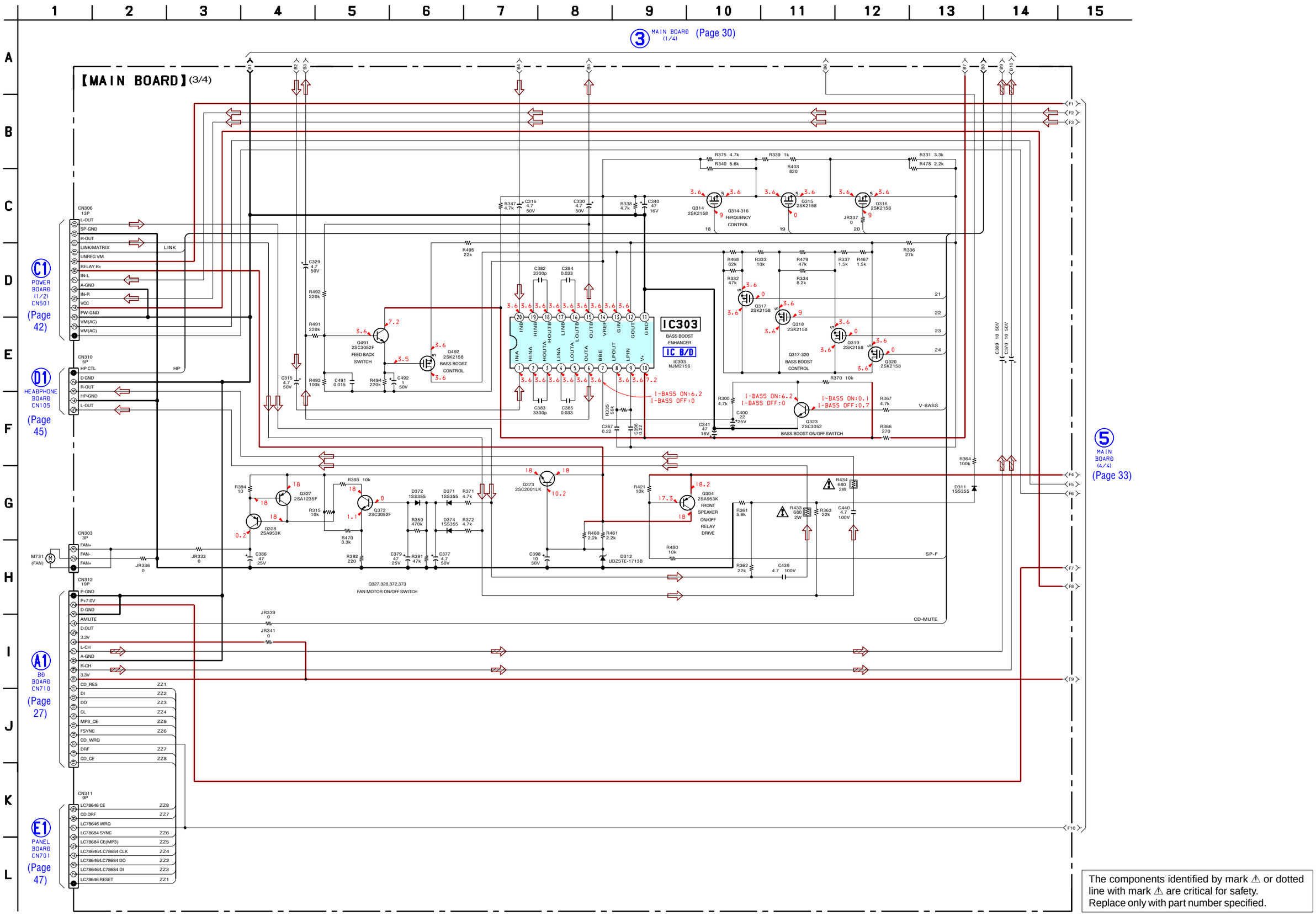
6-9. SCHEMATIC DIAGRAM – MAIN Board (1/4) (Suffix-11) – • See page 52 for IC Block Diagram.



6-10. SCHEMATIC DIAGRAM – MAIN Board (2/4) (Suffix-11) – • See page 52 for IC Block Diagram. • See page 52 for Waveforms.

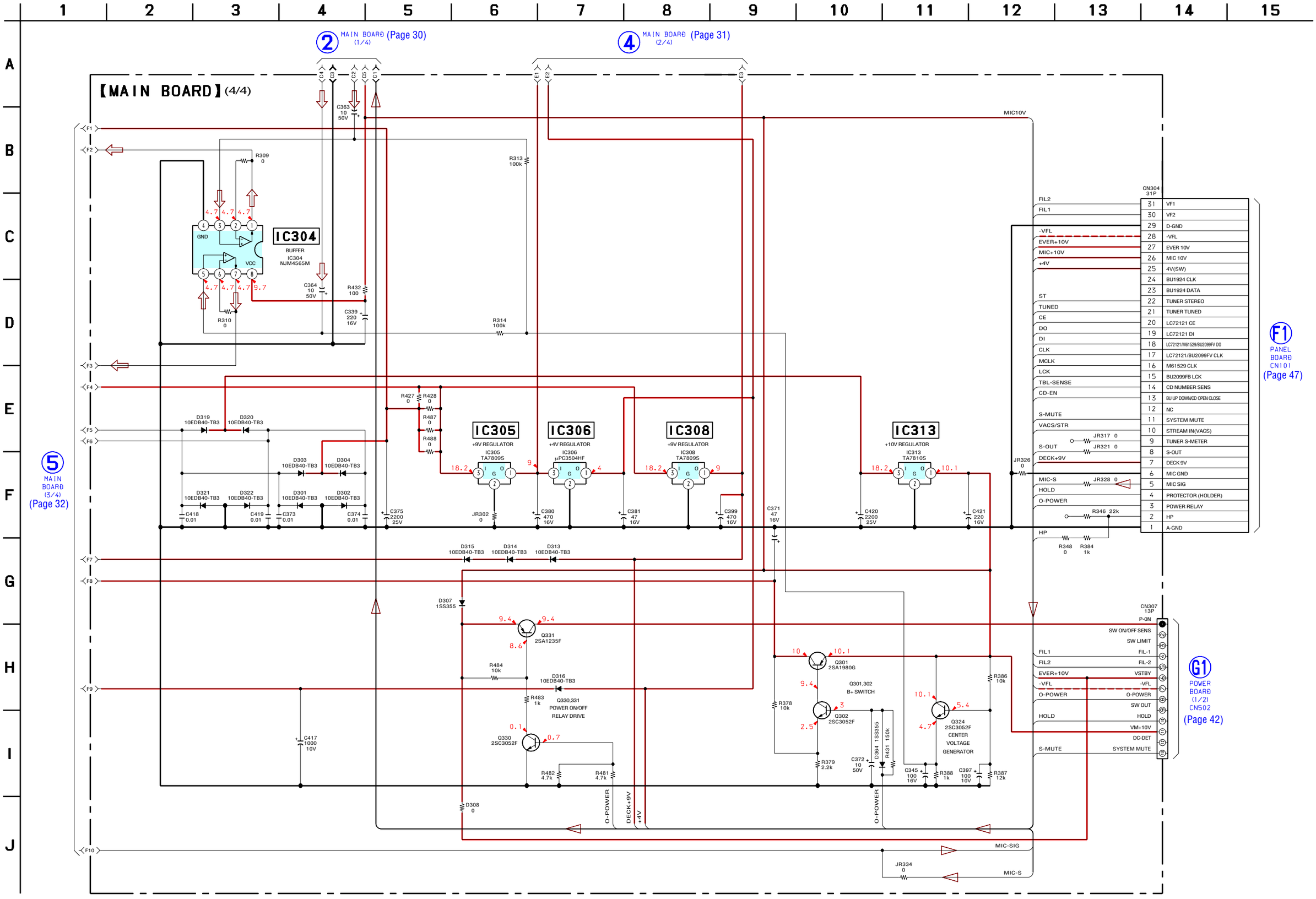


6-11. SCHEMATIC DIAGRAM – MAIN Board (3/4) (Suffix-11) – • See page 52 for IC Block Diagram.



The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

6-12. SCHEMATIC DIAGRAM – MAIN Board (4/4) (Suffix-11) –



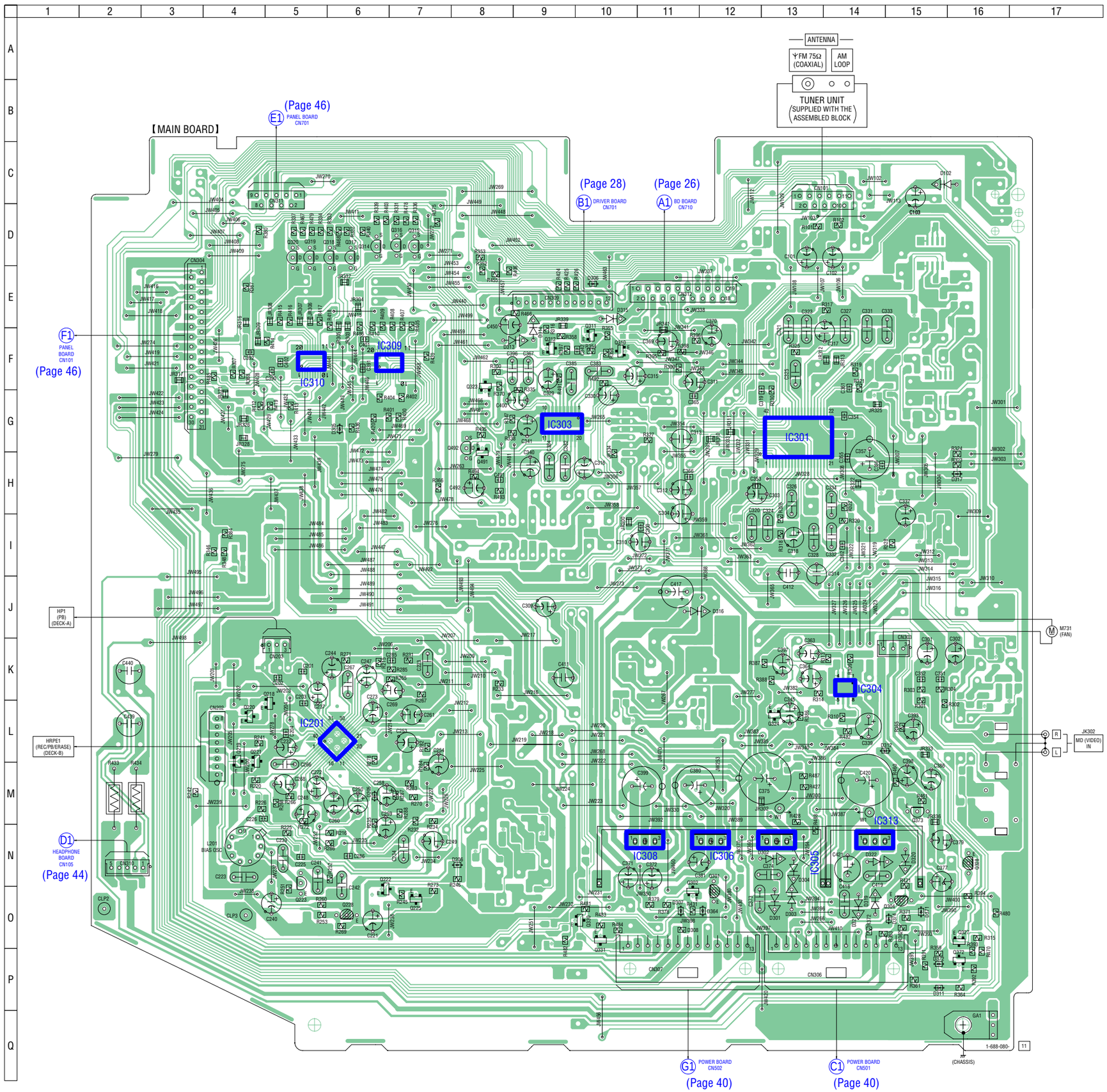
6-13. PRINTED WIRING BOARD – MAIN Board (Suffix-11) –

• See page 25 for Circuit Boards Location.

:Uses unleaded solder.

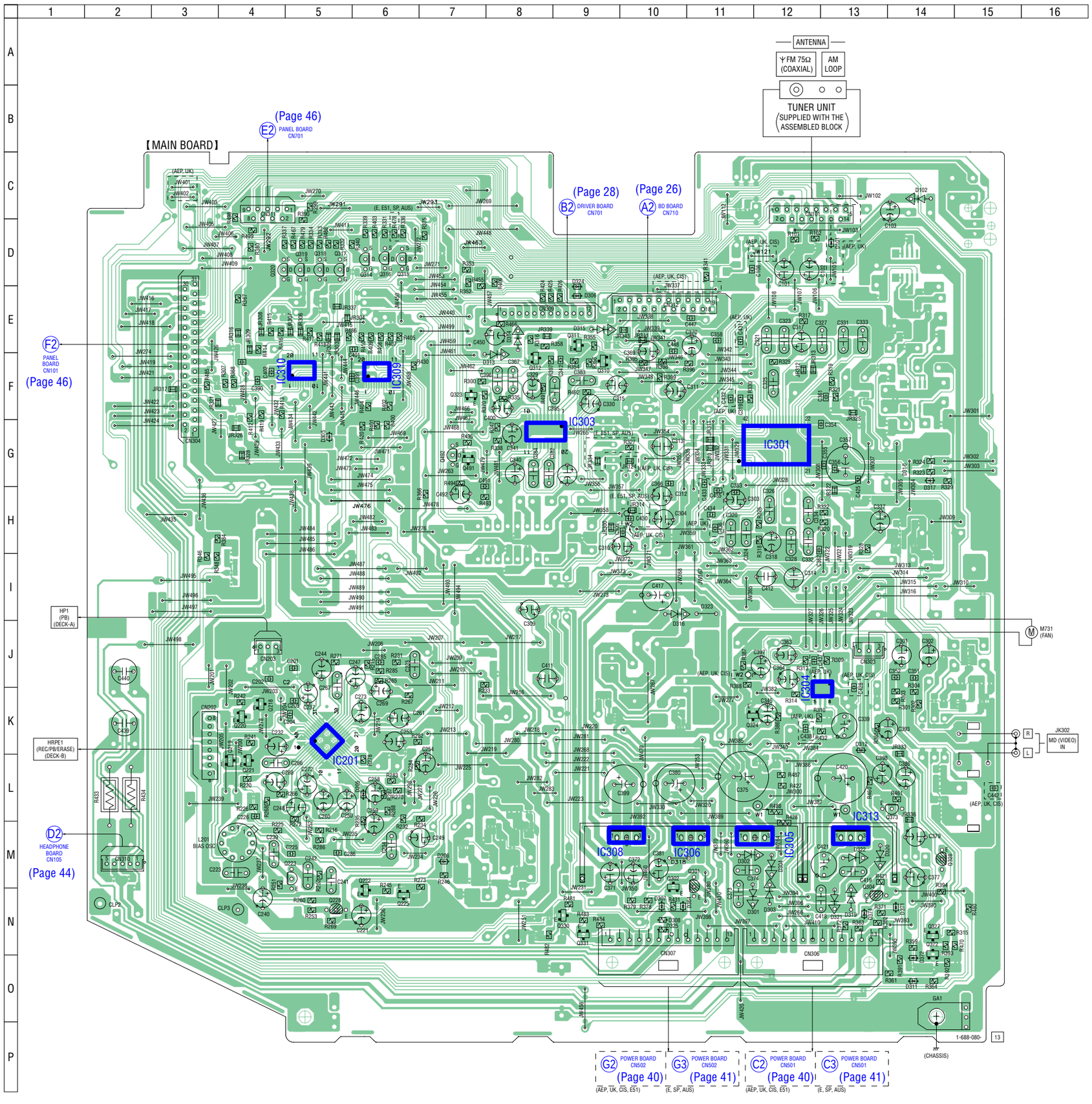
• **Semiconductor Location**

Ref. No.	Location
D102	C-16
D205	M-6
D206	N-8
D301	O-13
D302	N-13
D303	O-13
D304	N-13
D305	G-6
D306	E-10
D307	O-11
D311	P-15
D312	L-15
D313	F-8
D314	F-9
D315	E-10
D316	J-11
D317	H-16
D319	O-14
D320	N-15
D321	O-14
D322	N-14
D364	O-12
D371	O-15
D372	P-15
D374	O-15
IC201	L-6
IC301	G-13
IC303	G-9
IC304	K-14
IC305	N-13
IC306	N-12
IC308	N-11
IC309	F-6
IC310	F-5
IC313	N-14
Q218	L-5
Q219	L-4
Q220	L-4
Q221	L-4
Q222	O-6
Q223	N-5
Q225	O-7
Q228	O-6
Q301	O-12
Q302	O-11
Q304	O-15
Q310	F-10
Q311	F-10
Q312	F-9
Q314	D-6
Q315	D-7
Q316	D-7
Q317	D-6
Q318	D-6
Q319	D-5
Q320	D-5
Q323	F-8
Q324	L-13
Q327	O-16
Q328	N-16
Q330	O-10
Q331	O-10
Q372	P-16
Q373	M-15
Q491	H-8
Q492	G-8



6-14. PRINTED WIRING BOARD – MAIN Board (Suffix-13) –

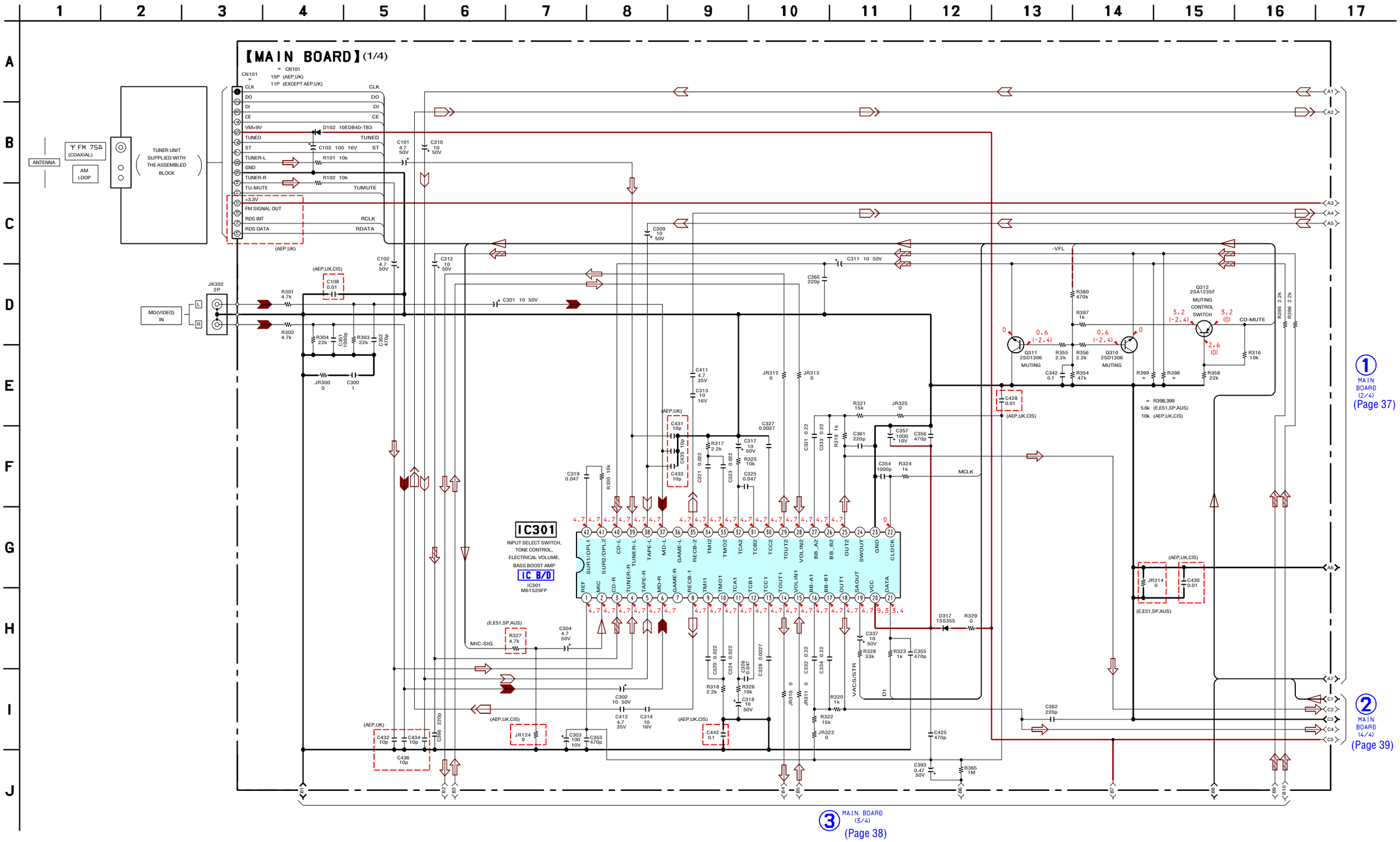
• See page 25 for Circuit Boards Location. :Uses unleaded solder.



• **Semiconductor Location**

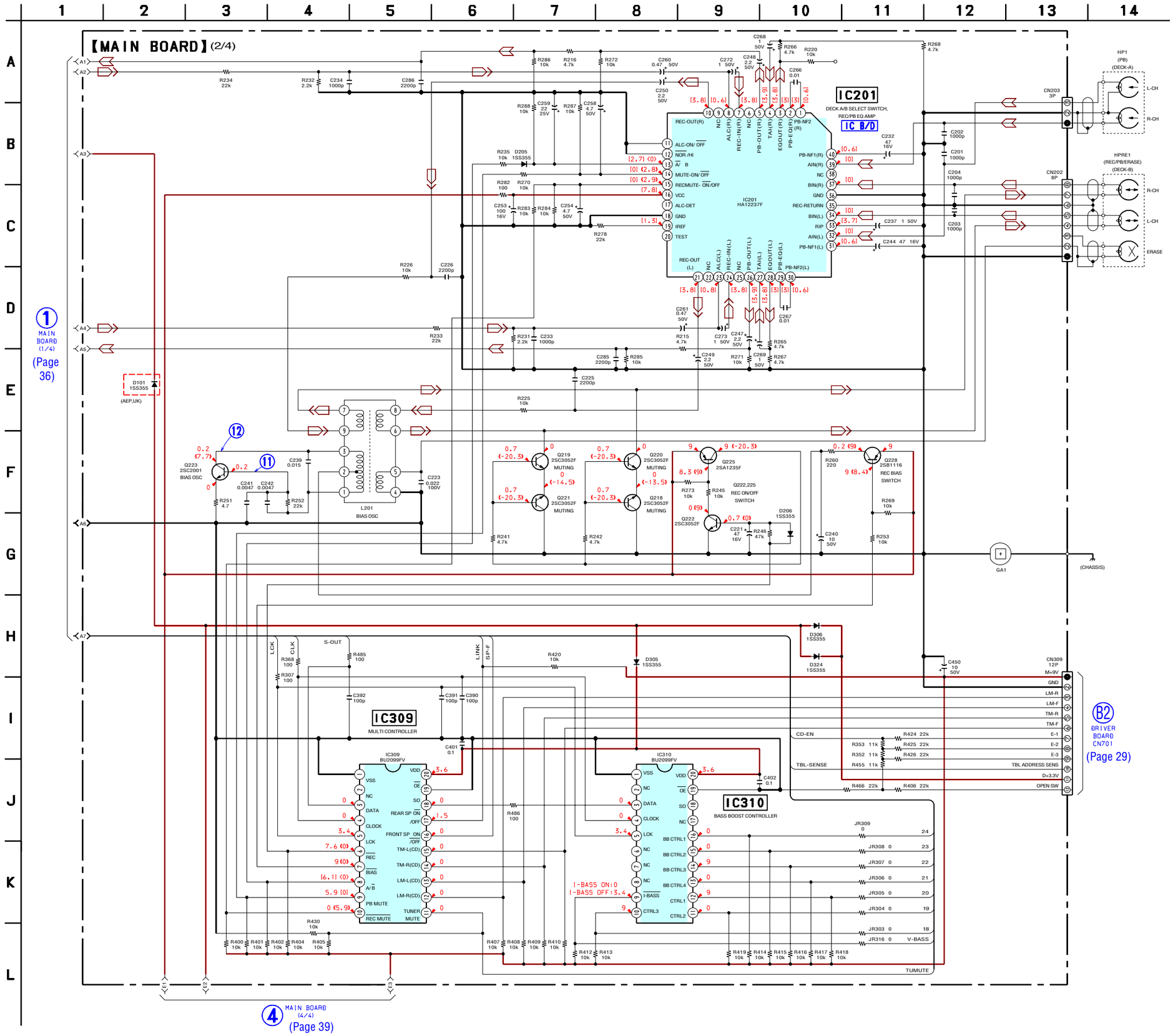
Ref. No.	Location
D101	D-13
D102	C-14
D205	L-6
D206	M-7
D301	N-11
D302	M-11
D303	N-12
D304	M-12
D305	G-5
D306	E-9
D307	N-10
D311	O-14
D312	K-13
D313	F-8
D314	E-8
D315	E-9
D316	I-10
D317	G-14
D319	N-13
D320	M-13
D321	N-13
D322	M-13
D324	E-9
D364	N-10
D371	N-14
D372	O-14
D374	N-13
IC201	K-5
IC301	G-12
IC303	G-8
IC304	K-13
IC305	M-12
IC306	M-11
IC308	M-10
IC309	F-6
IC310	F-5
IC313	M-13
Q218	K-4
Q219	L-4
Q220	K-4
Q221	L-4
Q222	N-6
Q223	M-5
Q225	N-6
Q228	N-5
Q301	M-11
Q302	M-10
Q304	N-13
Q310	F-9
Q311	E-9
Q312	F-8
Q314	D-6
Q315	D-6
Q316	D-6
Q317	D-5
Q318	D-5
Q319	D-5
Q320	D-4
Q323	F-7
Q324	K-11
Q327	N-14
Q328	M-14
Q330	N-9
Q331	N-9
Q372	N-14
Q373	L-14
Q491	G-7
Q492	G-7

6-15. SCHEMATIC DIAGRAM – MAIN Board (1/4) (Suffix-13) – • See page 52 for IC Block Diagram.

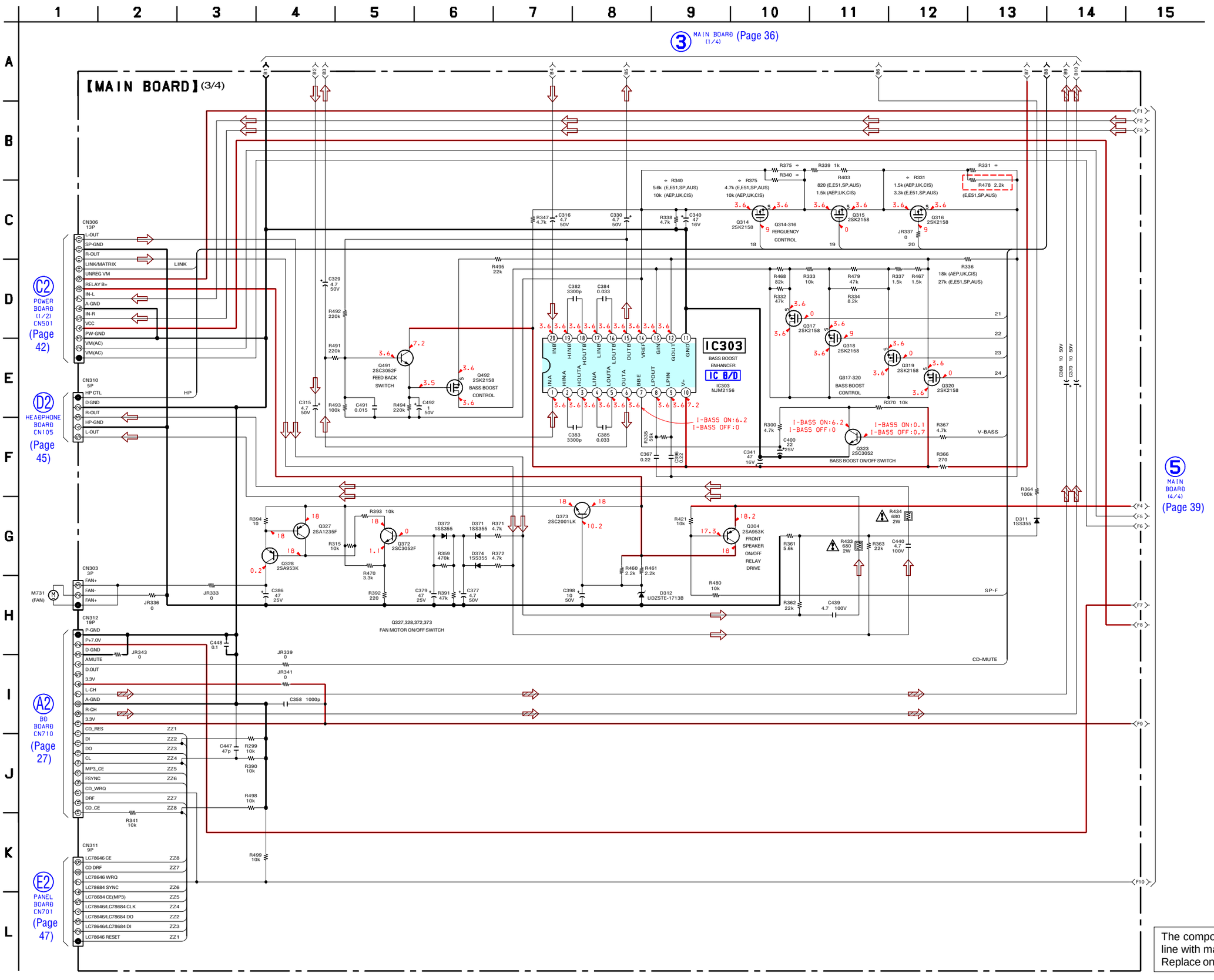


6-16. SCHEMATIC DIAGRAM – MAIN Board (2/4) (Suffix-13) –

• See page 52 for IC Block Diagram. • See page 52 for Waveforms.

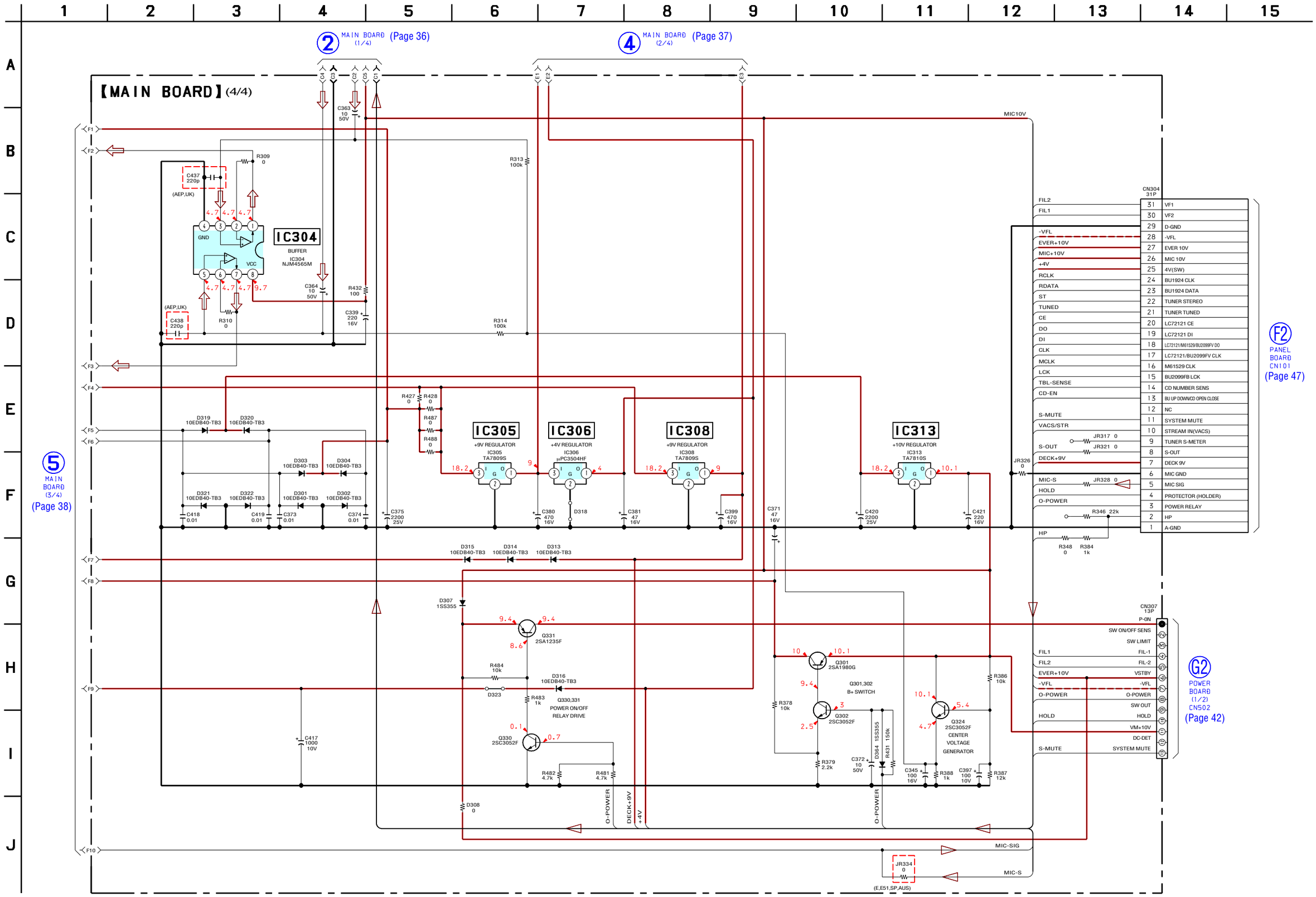


6-17. SCHEMATIC DIAGRAM – MAIN Board (3/4) (Suffix-13) – • See page 52 for IC Block Diagram.



The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

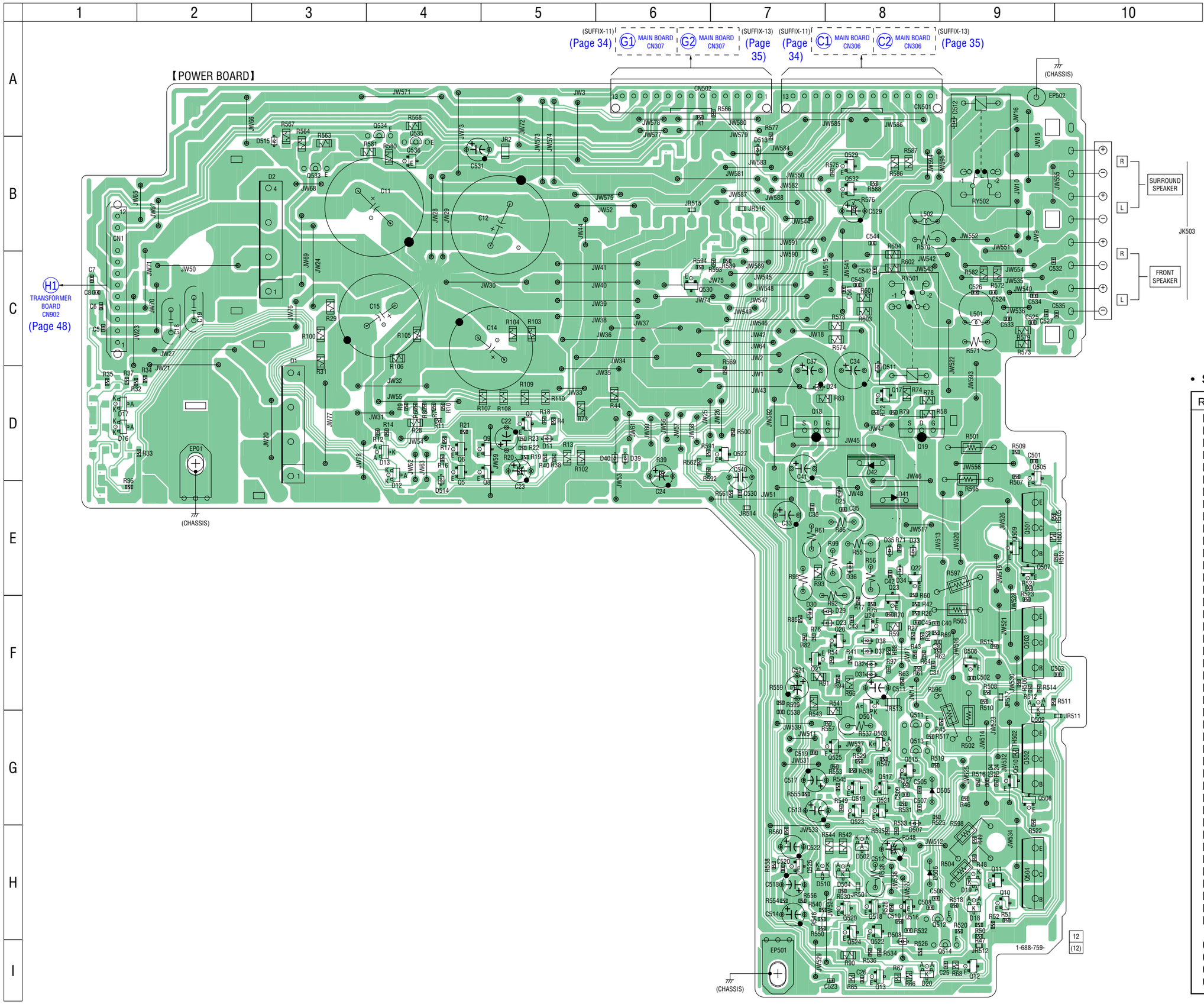
6-18. SCHEMATIC DIAGRAM – MAIN Board (4/4) (Suffix-13) –



6-19. PRINTED WIRING BOARD – POWER Board – (AEP, UK, CIS, E51 models)

• See page 25 for Circuit Boards Location.

:Uses unleaded solder.



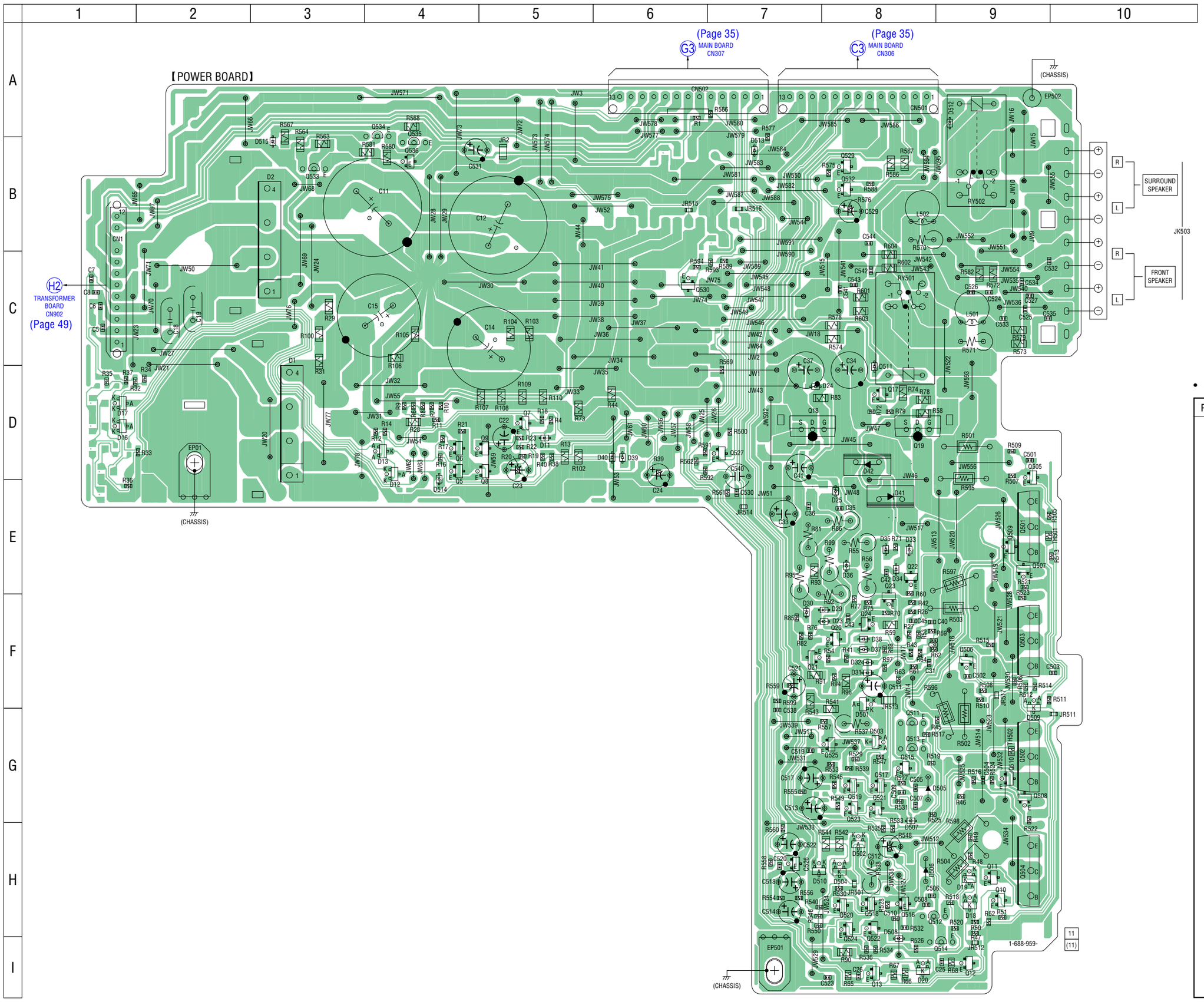
• **Semiconductor Location**

Ref. No.	Location	Ref. No.	Location
D1	D-3	Q9	D-5
D2	B-3	Q10	H-9
D11	D-5	Q11	H-9
D12	D-4	Q12	I-9
D13	D-4	Q13	I-8
D16	D-1	Q17	D-8
D17	D-1	Q18	D-7
D18	H-9	Q19	D-8
D19	H-9	Q20	F-8
D20	I-8	Q21	F-7
D23	F-8	Q22	E-8
D24	D-7	Q23	F-8
D25	E-8	Q24	F-8
D29	F-8	Q501	E-9
D30	F-7	Q502	G-9
D31	F-8	Q503	F-9
D32	F-8	Q504	H-9
D33	E-8	Q505	D-9
D34	E-8	Q506	F-9
D35	E-8	Q507	E-9
D36	E-8	Q508	G-9
D37	F-8	Q509	E-9
D38	F-8	Q510	G-9
D39	D-6	Q511	G-8
D40	D-6	Q512	H-8
D41	E-8	Q513	G-8
D42	D-8	Q514	I-9
D501	F-8	Q515	G-8
D502	H-8	Q516	H-8
D503	G-8	Q517	G-8
D504	H-8	Q518	H-8
D505	G-8	Q519	G-8
D506	H-8	Q520	H-8
D507	G-8	Q521	G-8
D508	I-8	Q522	H-8
D509	G-9	Q523	G-8
D510	H-7	Q524	H-8
D511	D-8	Q525	G-8
D512	A-9	Q526	H-7
D513	B-7	Q527	D-7
D514	D-4	Q529	B-8
D515	B-3	Q530	C-6
		Q532	B-8
Q5	D-4	Q533	B-3
Q6	D-4	Q534	A-4
Q7	D-5	Q535	B-4
Q8	D-5	Q536	B-4

6-20. PRINTED WIRING BOARD – POWER Board – (E, SP, AUS models)

• See page 25 for Circuit Boards Location.

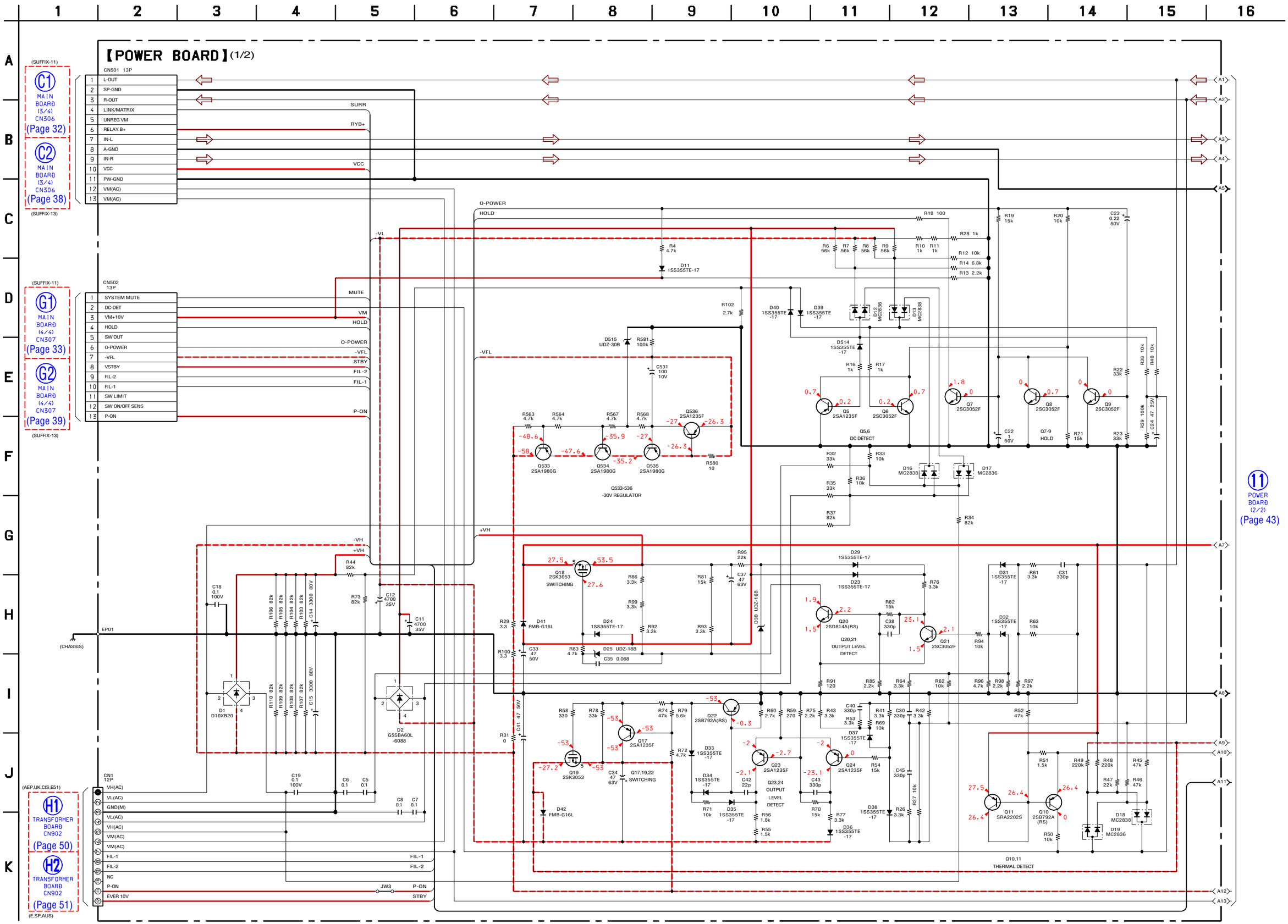
:Uses unleaded solder.



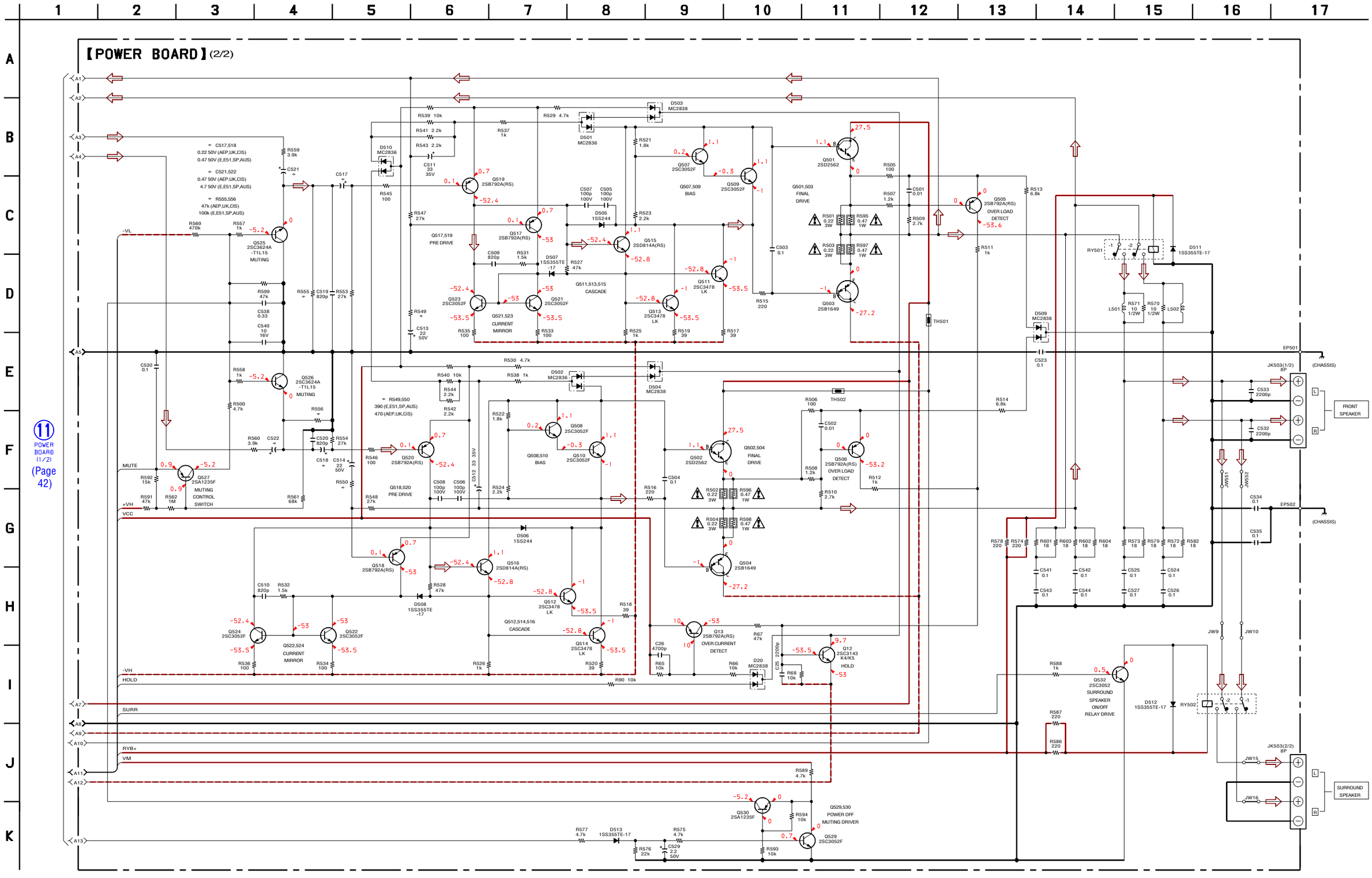
- **Semiconductor Location**

Ref. No.	Location	Ref. No.	Location
D1	D-3	Q9	D-5
D2	B-3	Q10	H-9
D11	D-5	Q11	H-9
D12	D-4	Q12	I-9
D13	D-4	Q13	I-8
D16	D-1	Q17	D-8
D17	D-1	Q18	D-7
D18	H-9	Q19	D-8
D19	H-9	Q20	F-8
D20	I-8	Q21	F-7
D23	F-8	Q22	E-8
D24	D-7	Q23	F-8
D25	E-8	Q24	F-8
D29	F-8	Q501	E-9
D30	F-7	Q502	G-9
D31	F-8	Q503	F-9
D32	F-8	Q504	H-9
D33	E-8	Q505	D-9
D34	E-8	Q506	F-9
D35	E-8	Q507	E-9
D36	E-8	Q508	G-9
D37	F-8	Q509	E-9
D38	F-8	Q510	G-9
D39	D-6	Q511	G-8
D40	D-6	Q512	H-8
D41	E-8	Q513	G-8
D42	D-8	Q514	I-9
D501	F-8	Q515	G-8
D502	H-8	Q516	H-8
D503	G-8	Q517	G-8
D504	H-8	Q518	H-8
D505	G-8	Q519	G-8
D506	H-8	Q520	H-8
D507	G-8	Q521	G-8
D508	I-8	Q522	H-8
D509	G-9	Q523	G-8
D510	H-7	Q524	H-8
D511	D-8	Q525	G-8
D512	A-9	Q526	H-7
D513	B-7	Q527	D-7
D514	D-4	Q529	B-8
D515	B-3	Q530	C-6
		Q532	B-8
Q5	D-4	Q533	B-3
Q6	D-4	Q534	A-4
Q7	D-5	Q535	B-4
Q8	D-5	Q536	B-4

6-21. SCHEMATIC DIAGRAM – POWER Board (1/2) –



6-22. SCHEMATIC DIAGRAM – POWER Board (2/2) –

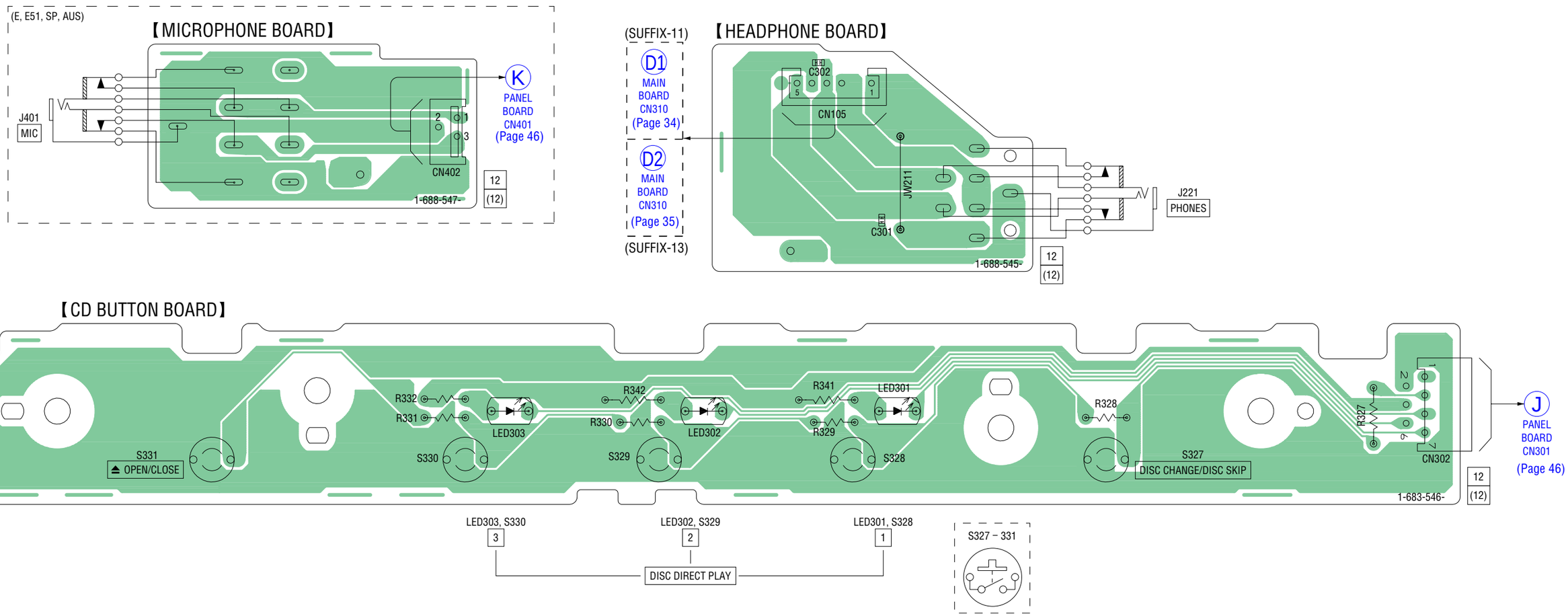


The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

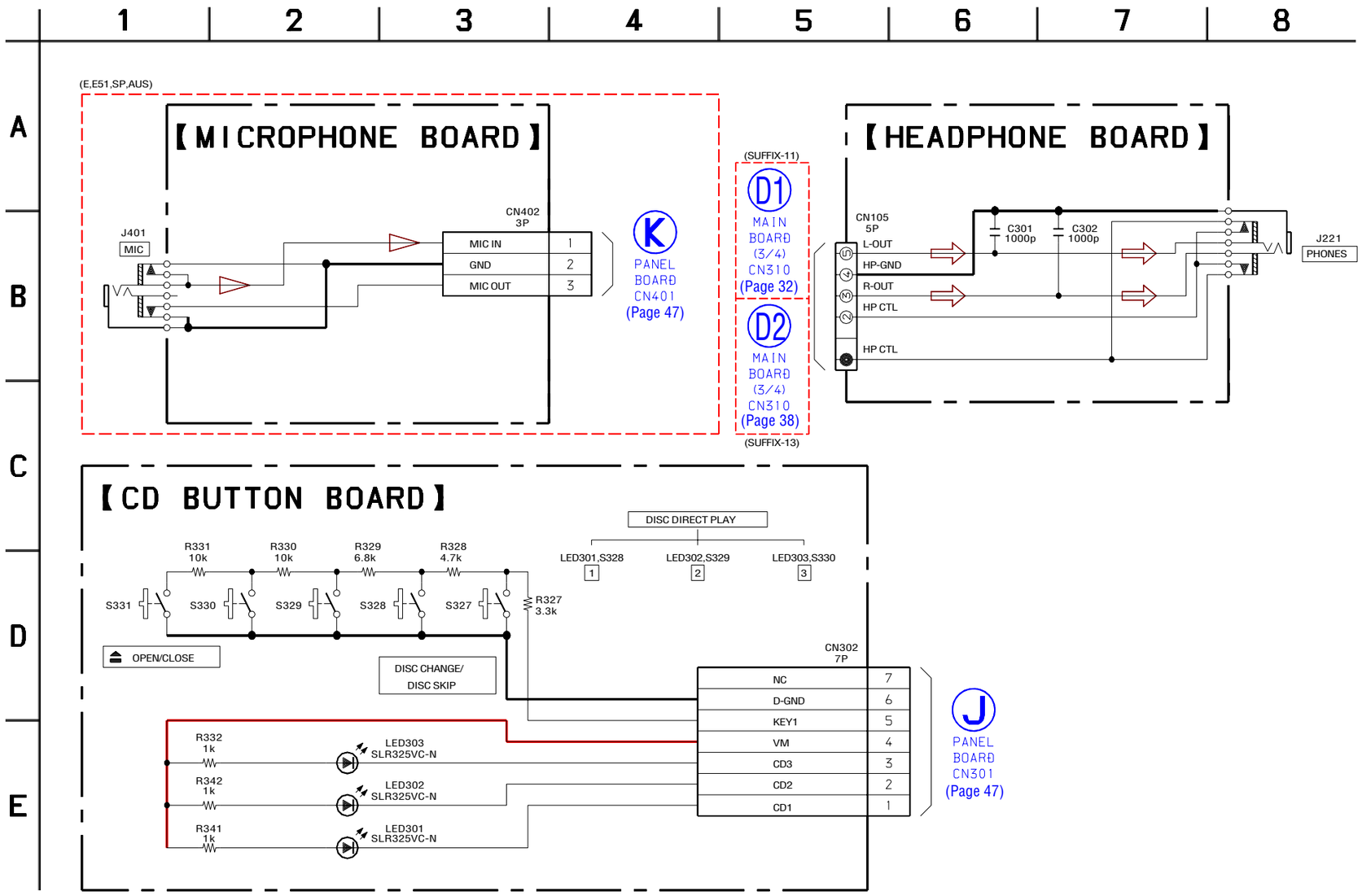
6-23. PRINTED WIRING BOARDS – CD BUTTON/HEADPHONE/MICROPHONE Boards –

• See page 25 for Circuit Boards Location.

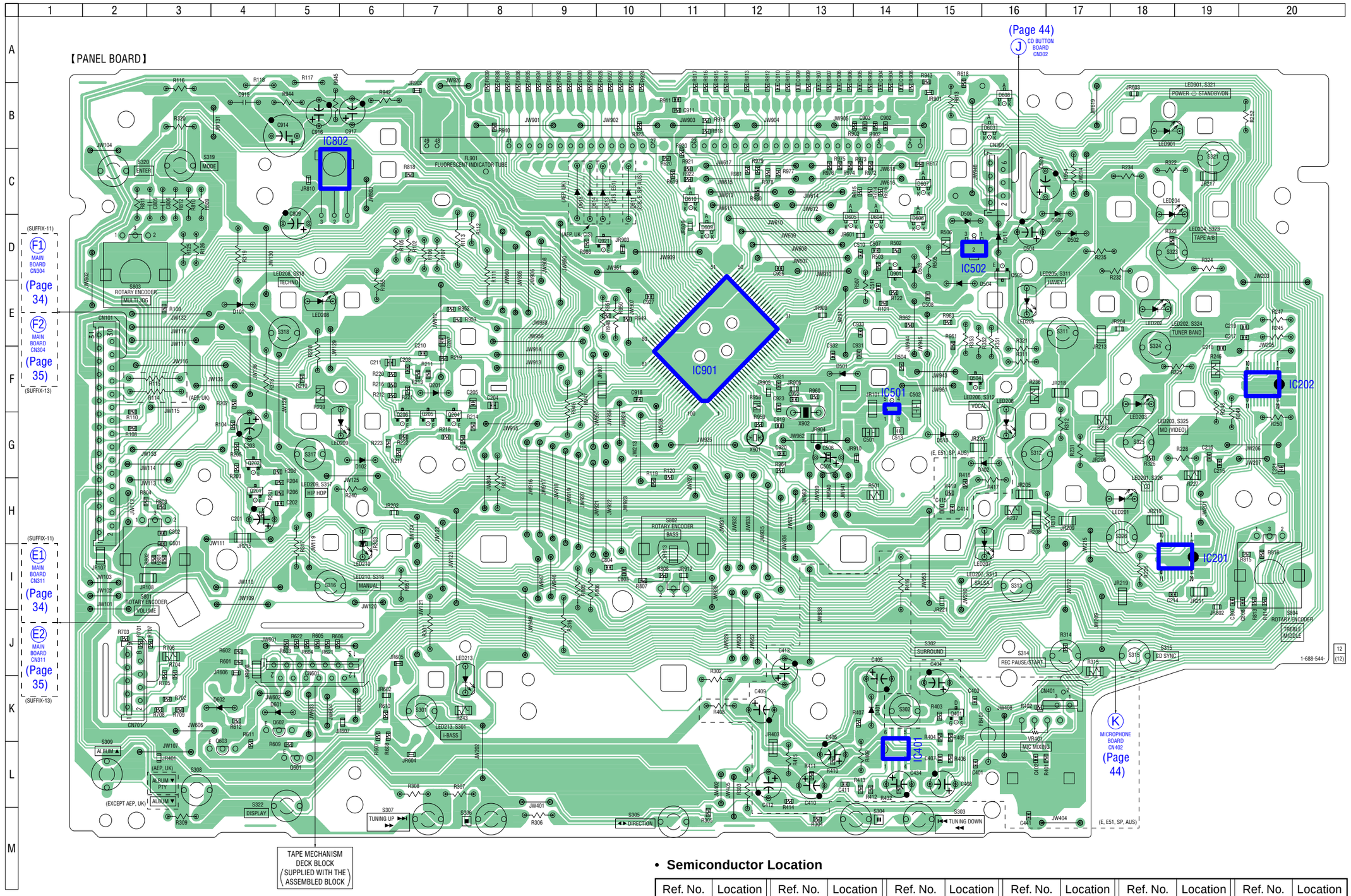
:Uses unleaded solder.



6-24. SCHEMATIC DIAGRAM – CD BUTTON/HEADPHONE/MICROPHONE Boards –



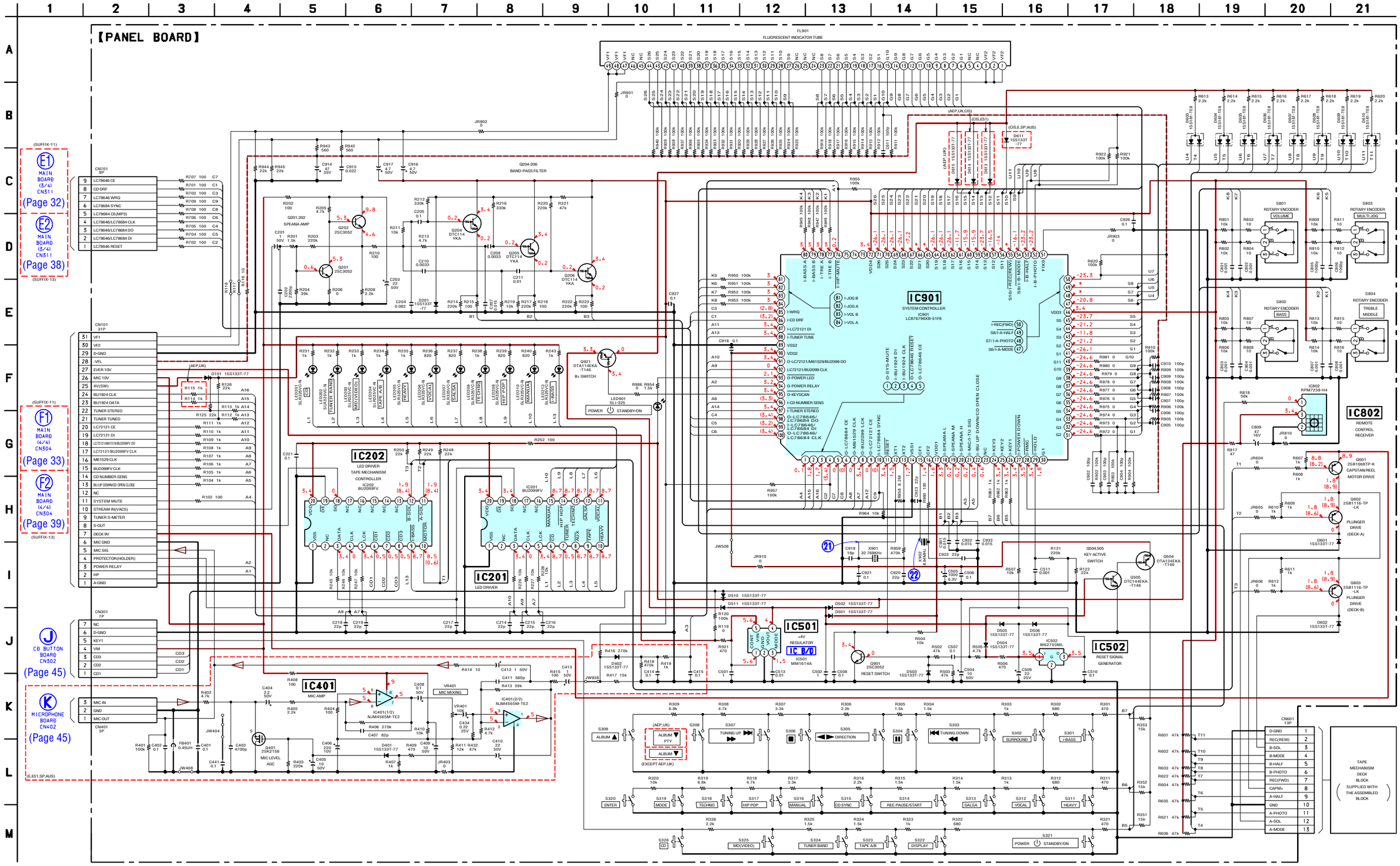
6-25. PRINTED WIRING BOARD – PANEL Board – • See page 25 for Circuit Boards Location. :Uses unleaded solder.



- **Semiconductor Location**

Ref. No.	Location	Ref. No.	Location	Ref. No.	Location	Ref. No.	Location	Ref. No.	Location	Ref. No.	Location
D101	E-4	D511	D-16	D611	C-10	IC901	E-11	LED210	H-6	Q505	D-16
D201	F-7	D601	K-5	D613	C-10			LED213	K-7	Q601	L-5
D401	K-14	D602	K-4	D614	C-9	LED201	H-18	LED901	B-18	Q602	K-5
D402	G-16	D603	B-16	D615	C-9	LED202	E-18			Q603	L-4
D501	F-13	D604	D-14			LED203	F-18	Q201	H-4	Q901	D-14
D502	D-17	D605	D-13	IC201	I-19	LED204	C-18	Q202	G-4	Q921	D-10
D503	D-14	D606	D-15	IC202	F-20	LED205	E-16	Q204	G-7		
D504	E-15	D607	C-15	IC401	L-14	LED206	G-16	Q205	G-7		
D505	D-17	D608	B-16	IC501	F-14	LED207	I-16	Q206	G-6		
D506	D-15	D609	D-11	IC502	D-15	LED208	E-5	Q401	K-15		
D510	G-15	D610	C-11	IC802	C-5	LED209	G-6	Q504	F-15		

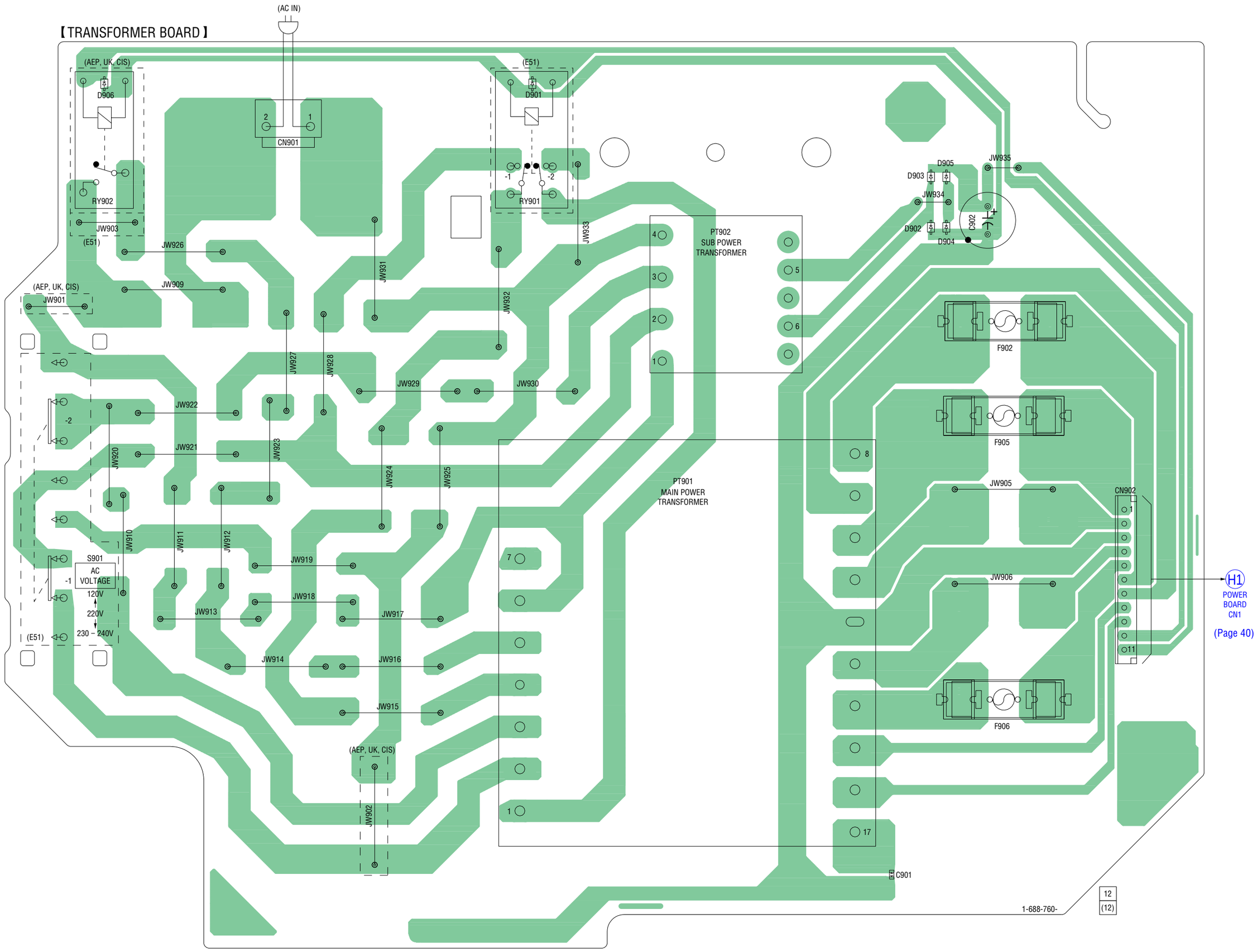
6-20. SCHEMATIC DIAGRAM – PANEL Board – • See page 52 for IC Block Diagram. • See page 52 for Waveforms.



6-27. PRINTED WIRING BOARD – TRANSFORMER Board – (AEP, UK, CIS, E51 models)

• See page 25 for Circuit Boards Location.

:Uses unleaded solder.

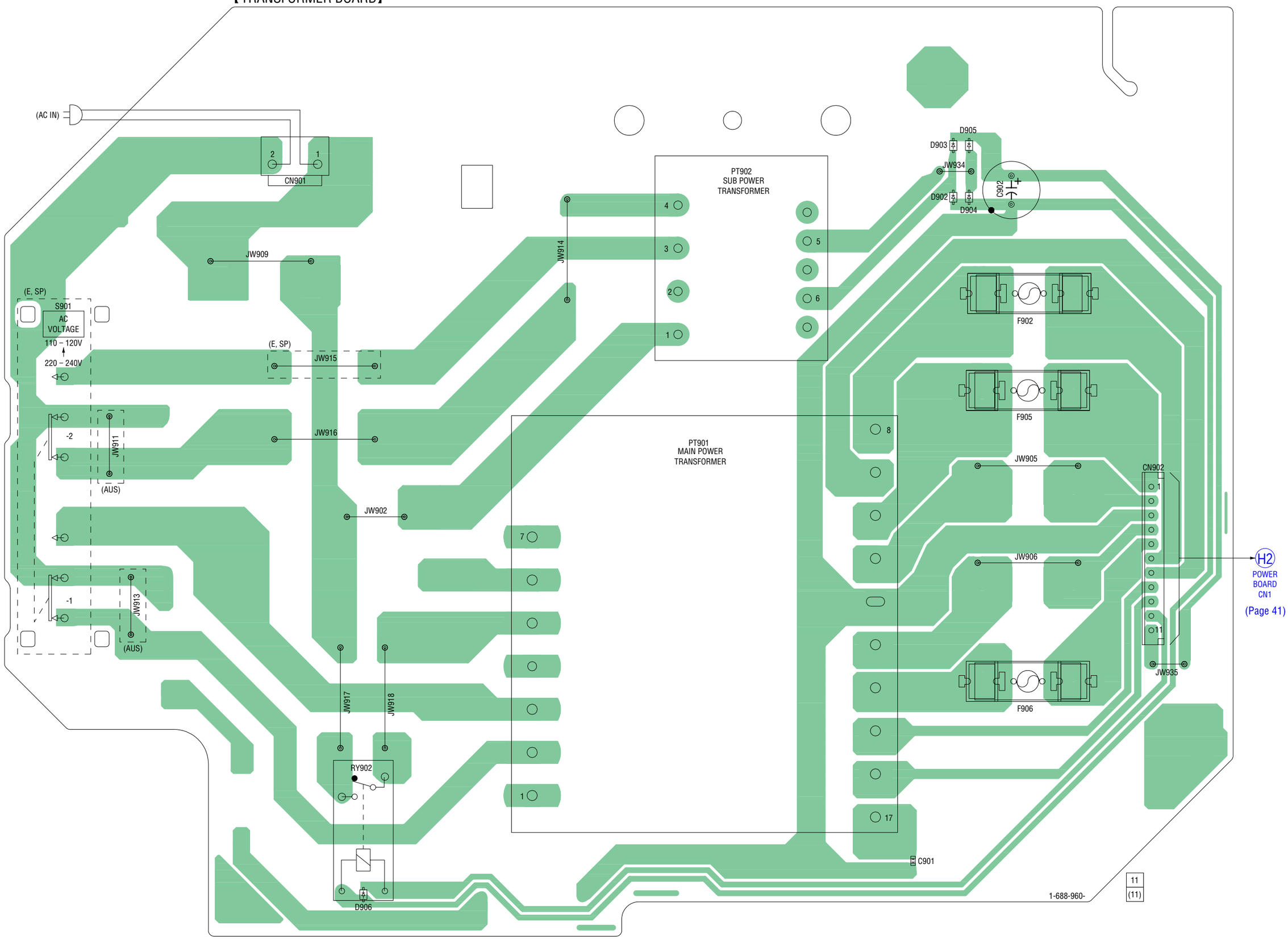


6-28. PRINTED WIRING BOARD – TRANSFORMER Board – (E, SP, AUS models)

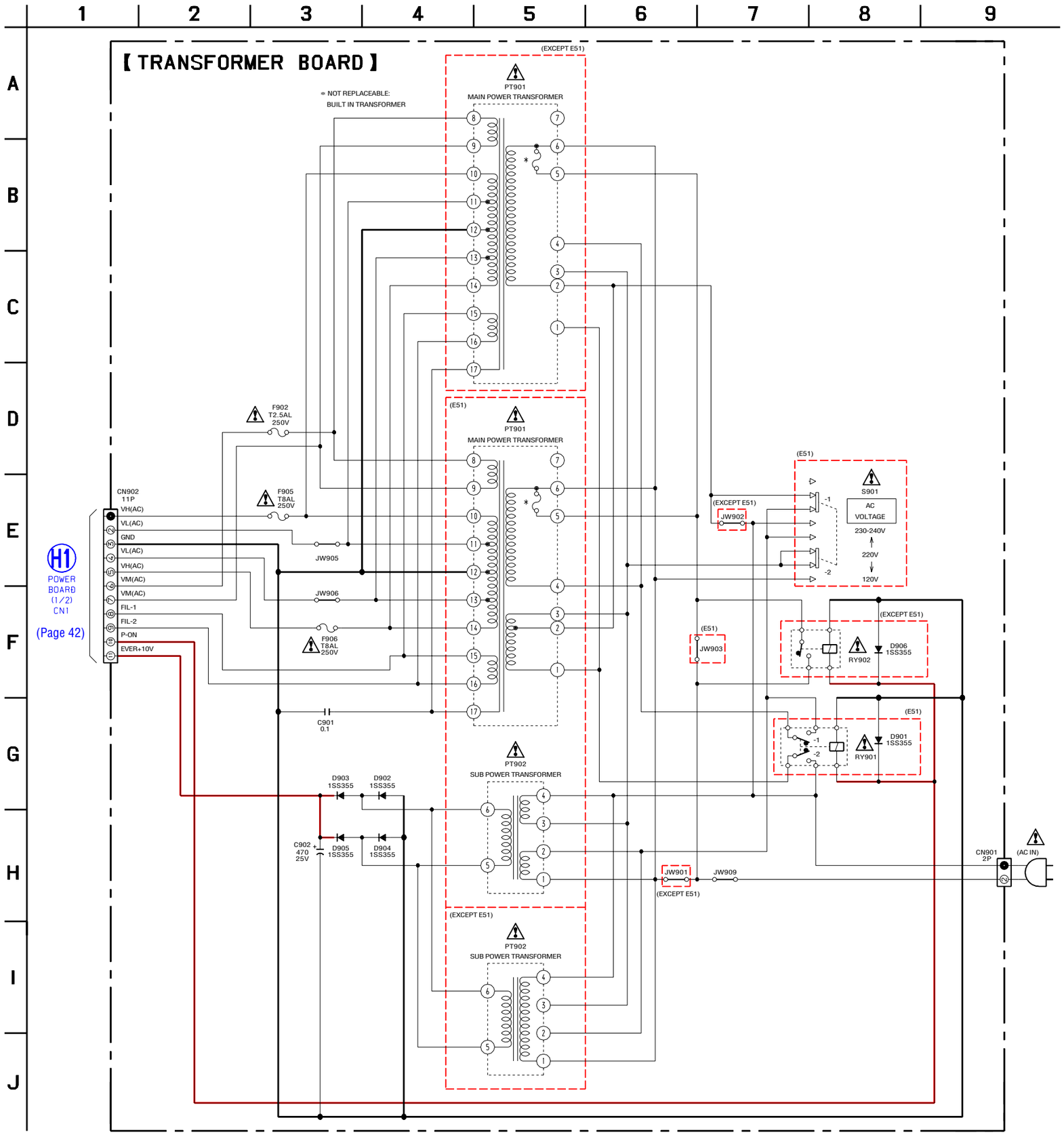
• See page 25 for Circuit Boards Location.

:Uses unleaded solder.

【TRANSFORMER BOARD】

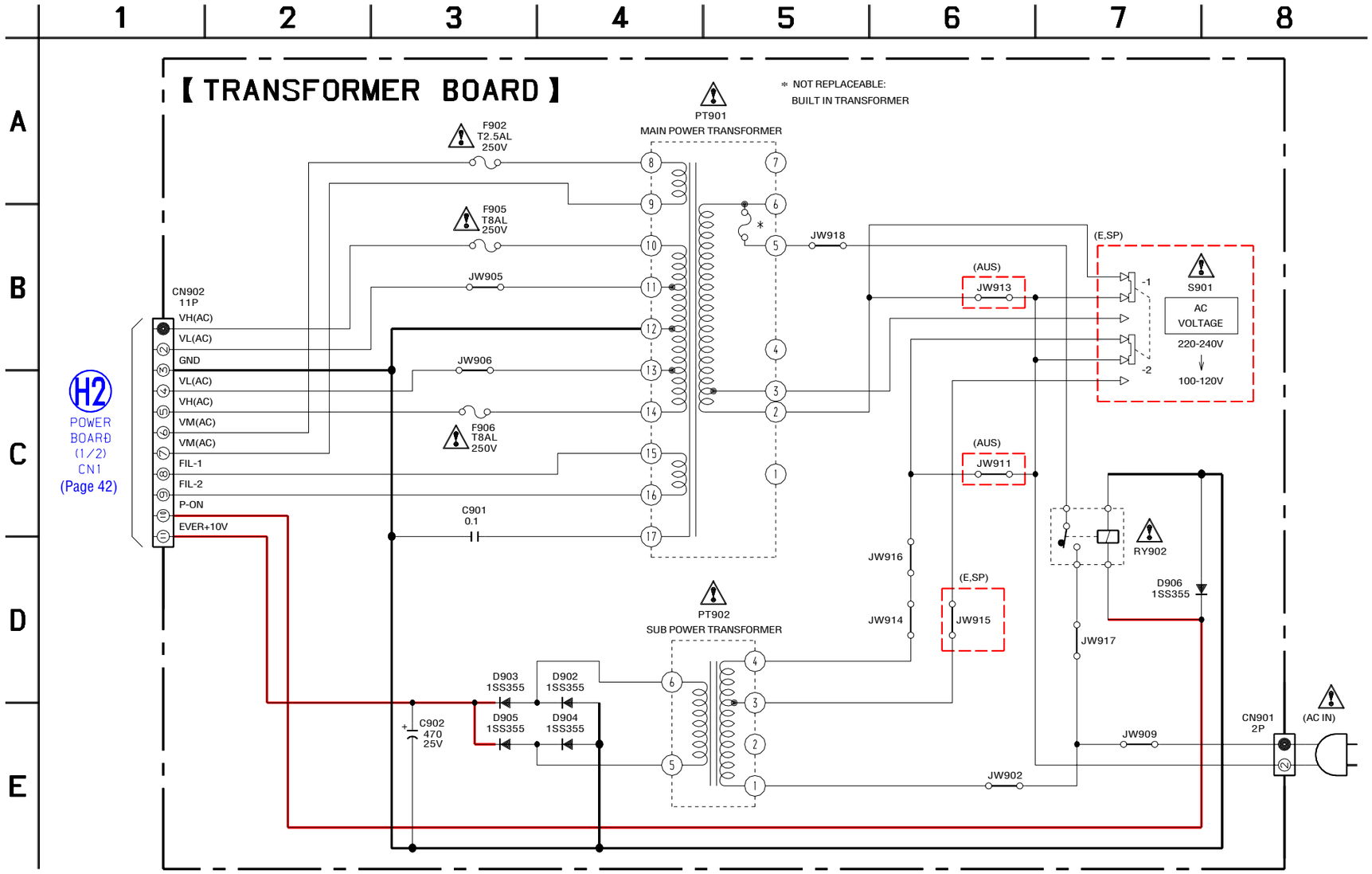


6-29. SCHEMATIC DIAGRAM – TRANSFORMER BOARD – (AEP, UK, CIS, E51 models)



The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

6-30. SCHEMATIC DIAGRAM – TRANSFORMER BOARD – (E, SP, AUS models)

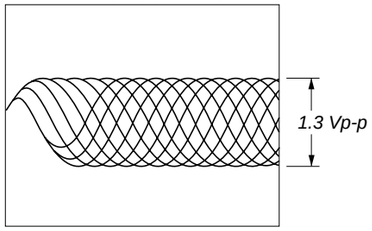


The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

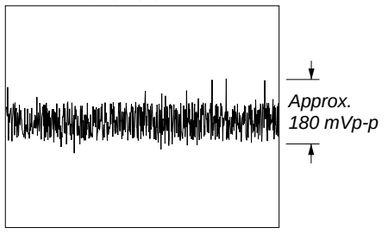
• **Waveforms**

– BD Board –

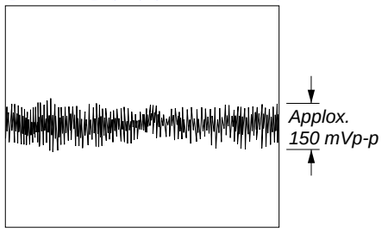
❶ IC721 ④ (RF) (CD Play Mode)



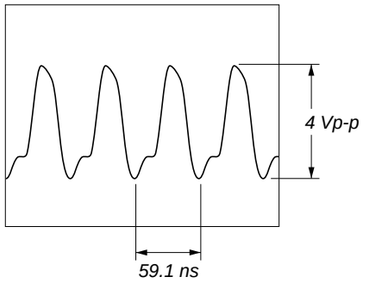
❷ IC721 ⑬ (TE) (CD Play Mode)



❸ IC721 ⑮ (TE) (CD Play Mode)

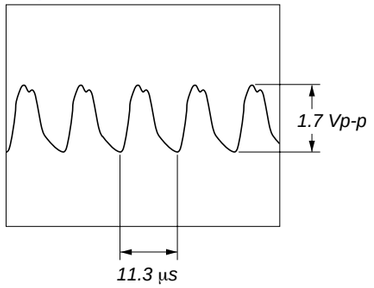


❹ IC721 ㊽ (XOUT)

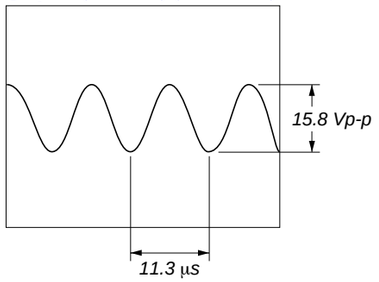


– MAIN Board –

⓫ Q223 (Base) (REC Mode)

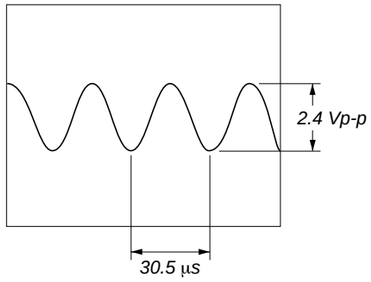


⓬ Q223 (Collector) (REC Mode)

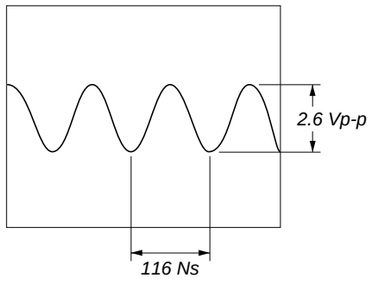


– PANEL Board –

㉑ IC901 ⑫ (XT1)



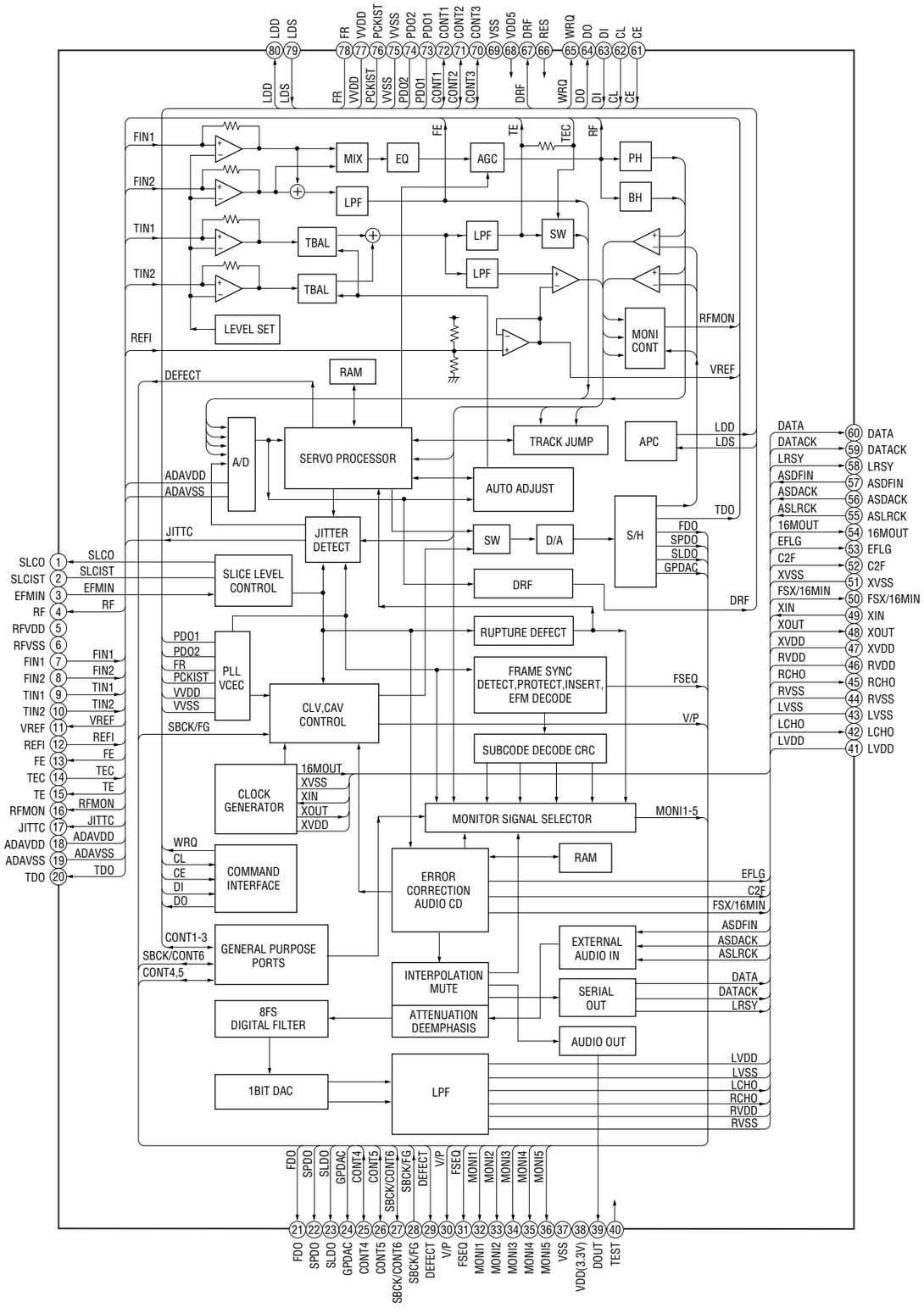
㉒ IC901 ⑮ (CF1)



• **IC Block Diagrams**

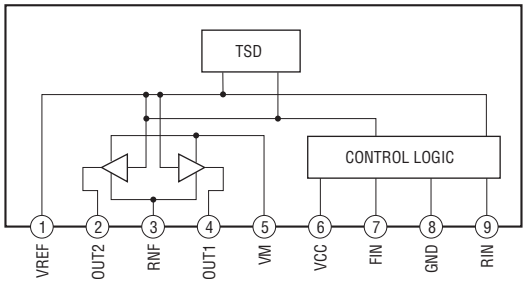
– BD Board –

IC721 LC78646E-E



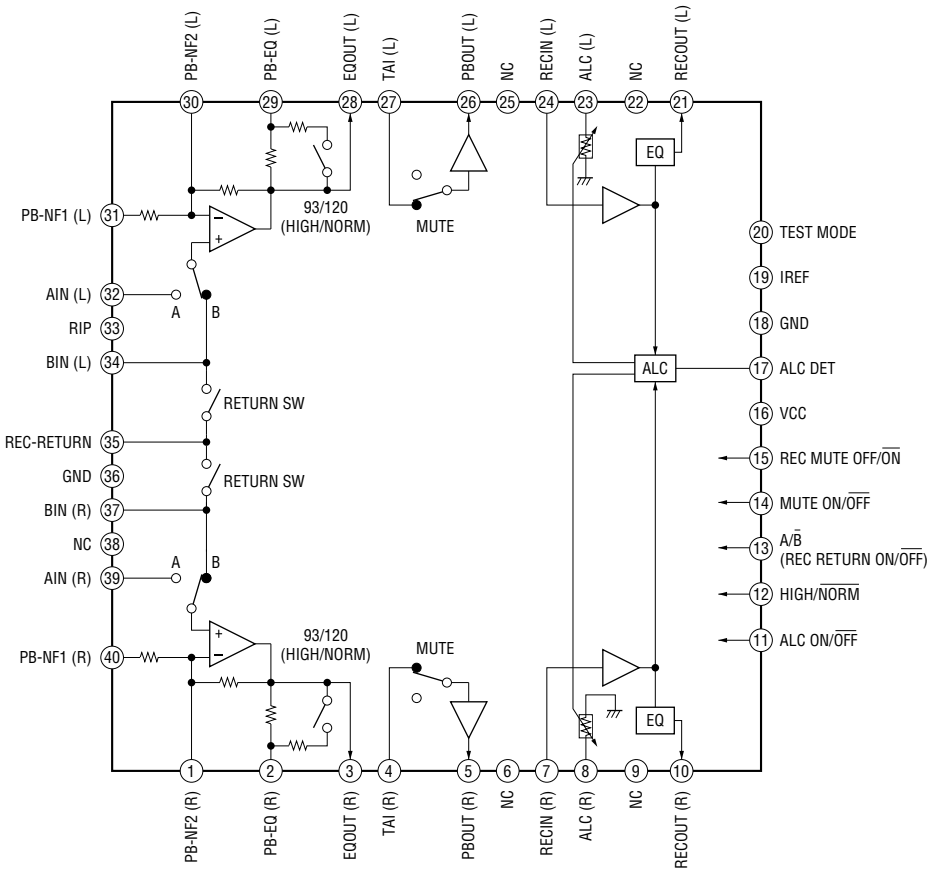
– DRIVER Board –

IC701, 712 BA6956AN

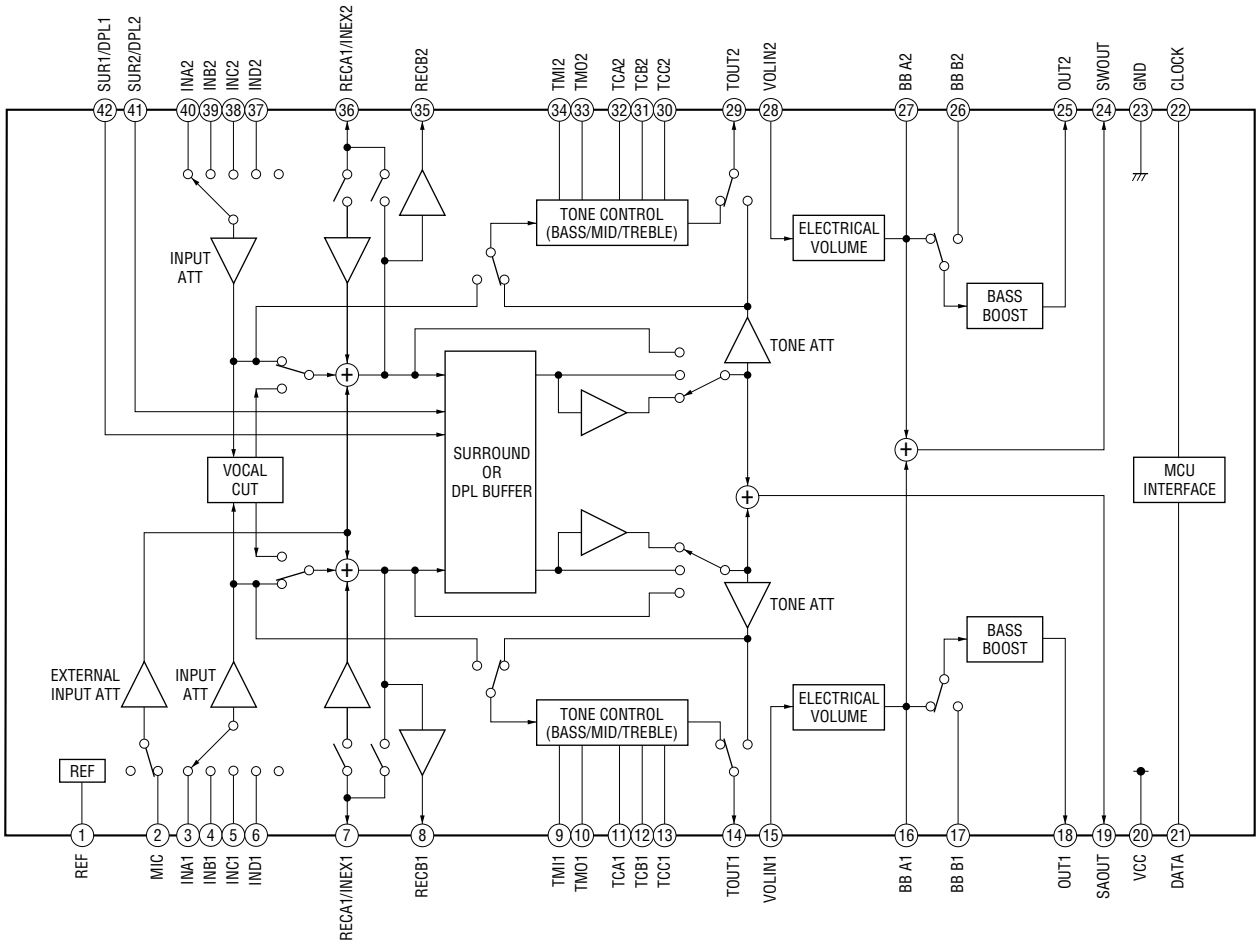


– MAIN Board –

IC201 HA12237F

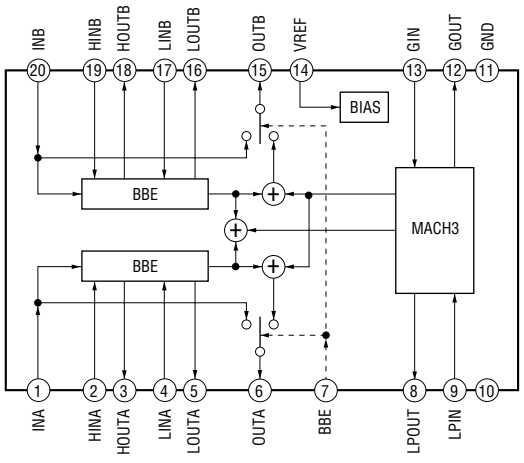


IC301 M61529FP-D60G

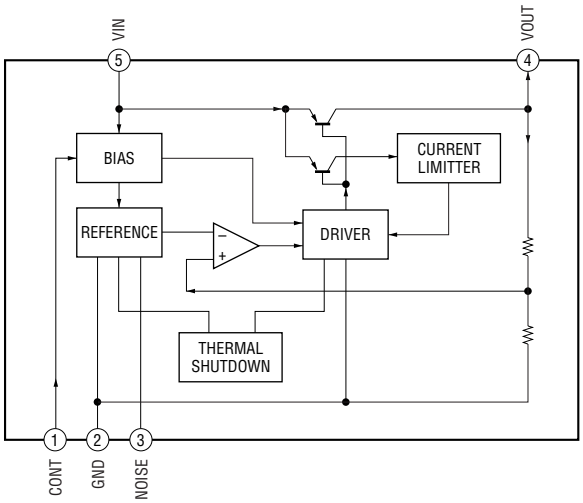


– PANEL Board –

IC303 NJM2156M (TE2)



IC501 MM1614A



6-31. IC PIN FUNCTION DESCRIPTION

• MAIN BOARD IC309 BU2099FV (MULTI CONTROLLER)

Pin No.	Pin Name	I/O	Description
1	VSS	—	Ground terminal
2	NC	—	Not used
3	DATA	I	Serial data input from the tape mechanism controller
4	CLOCK	I	Serial data transfer clock signal input from the system controller
5	LCK	I	Serial data latch pulse clock signal input from the system controller
6	$\overline{\text{REC}}$	O	Recording on/off control signal output terminal "L": recording
7	$\overline{\text{BIAS}}$	O	Recording bias on/off control signal output terminal "L": bias on
8	A/$\overline{\text{B}}$	O	Deck-A/B selection signal output to the deck-A/B select switch "L": deck-B, "H": deck-A
9	PB MUTE	O	Playback muting on/off control signal output to the recording/playback equalizer amplifier "H": muting on
10	$\overline{\text{REC MUTE}}$	O	Recording muting on/off control signal output to the recording/playback equalizer amplifier "L": muting on
11	TUNER MUTE	O	Tuner muting on/off control signal output to the tuner unit "H": muting on
12	LM-R (CD)	O	Loading motor drive signal output terminal
13	LM-L (CD)	O	Loading motor drive signal output terminal
14	TM-R (CD)	O	Table motor drive signal output terminal
15	TM-L (CD)	O	Table motor drive signal output terminal
16	FRONT SP$\overline{\text{ON}}$/OFF	O	Front speaker on/off relay drive control signal output terminal "L": front speaker on
17	REAR SPON/$\overline{\text{OFF}}$	O	Surround speaker on/off relay drive control signal output terminal "H": surround speaker on
18	SO	O	Serial data output to the bass boost controller
19	$\overline{\text{OE}}$	—	Not used
20	VDD	—	Power supply terminal (+3.3V)

• **MAIN BOARD IC310 BU2099FV (BASS BOOST CONTROLLER)**

Pin No.	Pin Name	I/O	Description
1	VSS	—	Ground terminal
2	NC	—	Not used
3	DATA	I	Serial data input from the multi controller
4	CLOCK	I	Serial data transfer clock signal input from the system controller
5	LCK	I	Serial data latch pulse clock signal input from the system controller
6 to 8	NC	—	Not used
9	$\overline{\text{I-BASS}}$	O	Bass boost on/off control signal output terminal "L": bass boost on
10 to 12	CTRL3 to CTRL1	O	Frequency control signal output terminal
13	BB CTRL4	O	Bass boost control signal output terminal "H": bass boost +10dB
14	BB CTRL3	O	Bass boost control signal output terminal "H": bass boost +8dB
15	BB CTRL2	O	Bass boost control signal output terminal "H": bass boost +6dB
16	BB CTRL1	O	Bass boost control signal output terminal "H": bass boost +5dB
17	NC	—	Not used
18	SO	O	Serial data output terminal Not used
19	$\overline{\text{OE}}$	—	Not used
20	VDD	—	Power supply terminal (+3.3V)

• **PANEL BOARD IC201 BU2099FV (LED DRIVER)**

Pin No.	Pin Name	I/O	Description
1	VSS	—	Ground terminal
2	NC	—	Not used
3	DATA	I	Serial data input from the system controller
4	CLOCK	I	Serial data transfer clock signal input from the system controller
5	LCK	I	Serial data latch pulse clock signal input from the system controller
6	$\overline{\text{CD}}$	O	LED drive signal output of the CD indicator "L": LED on
7	$\overline{\text{TUNER}}$	O	LED drive signal output of the TUNER BAND indicator "L": LED on
8	$\overline{\text{AUX}}$	O	LED drive signal output of the MD (VIDEO) indicator "L": LED on
9	$\overline{\text{TAPE}}$	O	LED drive signal output of the TAPE A/B indicator "L": LED on
10	$\overline{\text{HEAVY}}$	O	LED drive signal output of the HEAVY indicator "L": LED on
11	$\overline{\text{VOCAL}}$	O	LED drive signal output of the VOCAL indicator "L": LED on
12	$\overline{\text{SALSA}}$	O	LED drive signal output of the SALSA indicator "L": LED on
13	$\overline{\text{TECHNO}}$	O	LED drive signal output of the TECHNO indicator "L": LED on
14	$\overline{\text{HIP HOP}}$	O	LED drive signal output of the HIP HOP indicator "L": LED on
15	$\overline{\text{MANUAL}}$	O	LED drive signal output of the MANUAL indicator "L": LED on
16, 17	NC	—	Not used
18	SO	O	Serial data output to the tape mechanism controller
19	$\overline{\text{OE}}$	—	Not used
20	VDD	—	Power supply terminal (+3.3V)

• **PANEL BOARD IC202 BU2099FV (LED DRIVER, TAPE MECHANISM CONTROLLER)**

Pin No.	Pin Name	I/O	Description
1	VSS	—	Ground terminal
2	NC	—	Not used
3	DATA	I	Serial data input from the LED driver
4	CLOCK	I	Serial data transfer clock signal input from the system controller
5	LCK	I	Serial data latch pulse clock signal input from the system controller
6	$\overline{\text{CD1}}$	O	LED drive signal output of the DISC DIRECT PLAY 1 indicator "L": LED on
7	$\overline{\text{CD2}}$	O	LED drive signal output of the DISC DIRECT PLAY 2 indicator "L": LED on
8	$\overline{\text{CD3}}$	O	LED drive signal output of the DISC DIRECT PLAY 3 indicator "L": LED on
9	$\overline{\text{I-BASS}}$	O	LED drive signal output of the i-BASS indicator "L": LED on
10	$\overline{\text{MOTOR}}$	O	Capstan/reel motor drive signal output terminal "L": motor on
11	$\overline{\text{A-SOL}}$	O	Deck-A side trigger plunger drive signal output terminal "L": plunger on
12	$\overline{\text{B-SOL}}$	O	Deck-B side trigger plunger drive signal output terminal "L": plunger on
13 to 17	NC	—	Not used
18	SO	O	Serial data output to the multi controller
19	$\overline{\text{OE}}$	—	Not used
20	VDD	—	Power supply terminal (+3.3V)

• **PANEL BOARD IC901 LC8767962B-51F6 (SYSTEM CONTROLLER)**

Pin No.	Pin Name	I/O	Description
1	O-SYS-MUTE	O	Line muting on/off control signal output terminal "H": muting on
2	I-BU1924 DI	I	RDS serial data input from the tuner unit (AEP and UK models) Not used (Except AEP and UK models)
3	I-BU1924 CLK	I	RDS serial data transfer clock signal input from the tuner unit (AEP and UK models) Not used (Except AEP and UK models)
4	$\overline{\text{O-CL78646 RESET}}$	O	Reset signal output to the CD DSP "L": reset
5	O-CL78646 CE	O	Chip enable signal output to the CD DSP
6	O-CL78684 CE	O	Chip enable signal output to the MP3 decoder
7	O-M61529 CLK	O	Serial data transfer clock signal output to the electrical volume
8	O-BU2099 LCK	O	Serial data latch pulse clock signal output to the LED driver, tape mechanism controller, multi controller and bass boost controller
9	O-LC72121 CE	O	Chip enable signal output to the tuner unit
10	I-CL78684 SYNC	I	Chip enable signal input from the MP3 decoder
11	$\overline{\text{RESET}}$	I	System reset signal input from the reset signal generator "L": reset For several hundreds msec. after the power supply rises, "L" is input, then it changes to "H"
12	XT1	I	Sub system clock input terminal (32.768 kHz)
13	XT2	O	Sub system clock output terminal (32.768 kHz)
14	VSS1	—	Ground terminal
15	CF1	I	Main system clock input terminal (8.64 MHz)
16	CF2	O	Main system clock output terminal (8.64 MHz)
17	VDD1	—	Power supply terminal (+3.3V)
18	I-SPEANA L	I	Spectrum analyzer drive (low frequency) signal input from the spectrum analyzer band-pass filter
19	I-SPEANA M	I	Spectrum analyzer drive (middle frequency) signal input from the spectrum analyzer band-pass filter
20	I-SPEANA H	I	Spectrum analyzer drive (high frequency) signal input from the spectrum analyzer band-pass filter
21	I-MIC/I-TU SIG	I	Mic audio signal input terminal (Except AEP, UK and CIS models) Not used (AEP, UK and CIS models)
22	I-BU UP DOWN/ CD OPEN CLOSE	I	Optical pick-up up/down detection signal and CD tray open/close detection signal input terminal
23	NC	—	Not used
24 to 26	I-KEY3 to I-KEY1	I	Front panel key input terminal (A/D input)
27	$\overline{\text{I-POWER DOWN}}$	I	AC detection signal input terminal "L": power down
28	$\overline{\text{I-RMC}}$	I	Remote control signal input terminal
29	$\overline{\text{I-HOLD}}$	I	System malfunction signal (hold signal) input from the power amplifier circuit
30	G1	O	Grid drive signal output to the fluorescent indicator tube Not used
31 to 40	G2 to G11	O	Grid drive signal output to the fluorescent indicator tube
41 to 45	S1 to S5	O	Segment drive signal output to the fluorescent indicator tube
46	VDD3	—	Power supply terminal (+3.3V)
47	S6/$\overline{\text{I-A-MODE}}$	I/O	Segment drive signal output to the fluorescent indicator tube and deck-A mode detection signal input from the tape mechanism deck block "L" active
48	S7/I-A-PHOTO	I/O	Segment drive signal output to the fluorescent indicator tube and deck-A tape reel rotating detection signal input from the tape mechanism deck block
49	S8/$\overline{\text{I-A-HALF}}$	I/O	Segment drive signal output to the fluorescent indicator tube and deck-A cassette detection signal input from the tape mechanism deck block "L": cassette in
50	$\overline{\text{I-REC (FWD)}}$	I	Recording-proof (forward direction) detection signal input from the tape mechanism deck block "L": recording possible

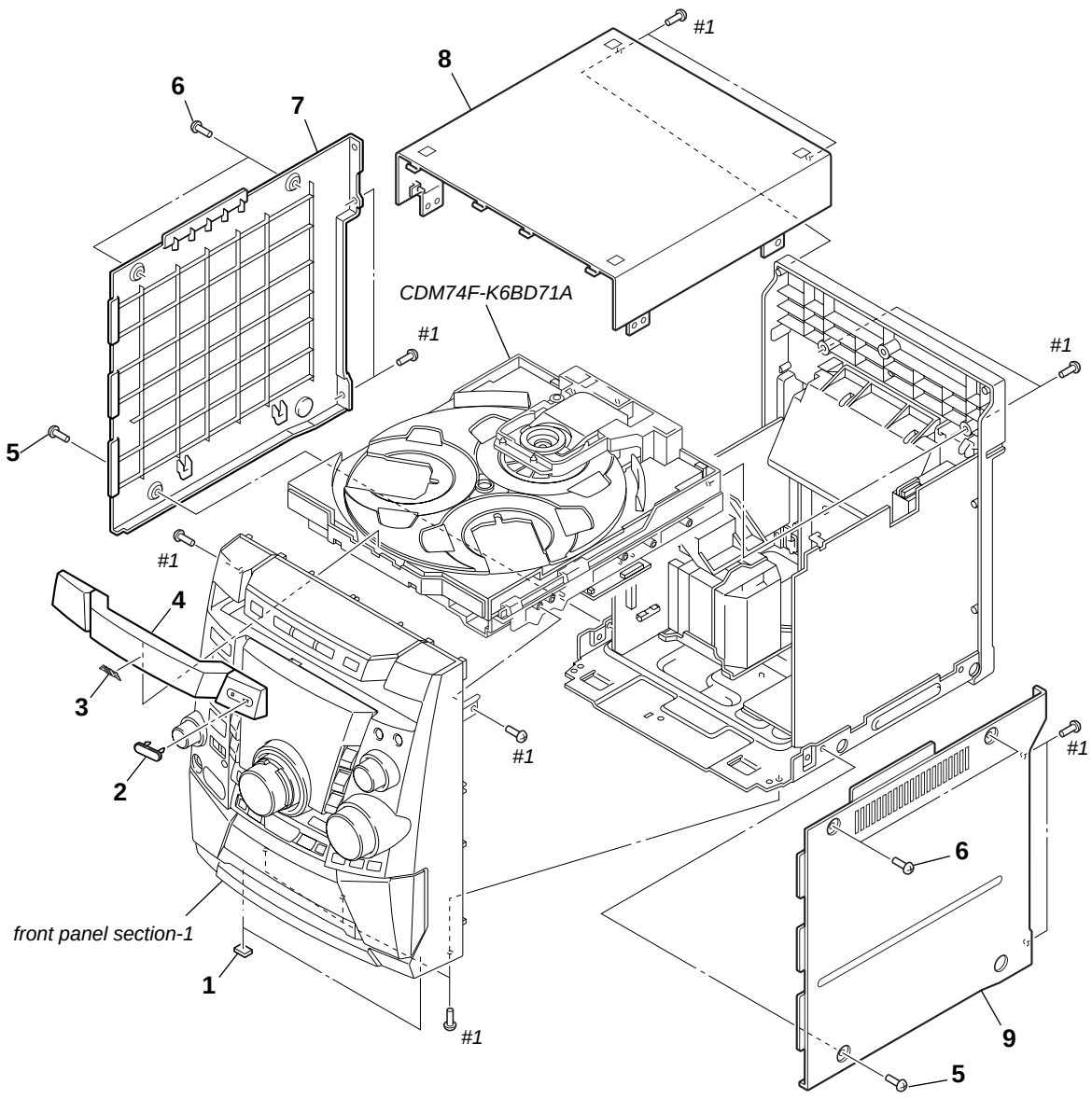
Pin No.	Pin Name	I/O	Description
51	FIX0	—	Not used
52	I-B-PHOTO	I	Deck-B tape reel rotating detection signal input from the tape mechanism deck block
53	$\overline{\text{I-B-HALF}}$	I	Deck-B cassette detection signal input from the tape mechanism deck block "L": cassette in
54	S9/$\overline{\text{I-B-MODE}}$	I/O	Segment drive signal output to the fluorescent indicator tube and deck-B mode detection signal input from the tape mechanism deck block "L" active
55	$\overline{\text{S10/I-REC (REW)}}$	I/O	Segment drive signal output to the fluorescent indicator tube and recording-proof (reverse direction) detection signal input from the tape mechanism deck block "L": recording possible
56 to 71	S11 to S26	O	Segment drive signal output to the fluorescent indicator tube
72	VDD4	—	Power supply terminal (+3.3V)
73 to 75	—	—	Not used
76	$\overline{\text{I-HP-MUTE}}$	I	Headphone detection signal input terminal "H": headphone in
77	I-TRE B	I	Jog dial pulse input from the rotary encoder (TREBLE/MIDDLE) (B phase input)
78	I-TRE A	I	Jog dial pulse input from the rotary encoder (TREBLE/MIDDLE) (A phase input)
79	I-BASS B	I	Jog dial pulse input from the rotary encoder (BASS) (B phase input)
80	I-BASS A	I	Jog dial pulse input from the rotary encoder (BASS) (A phase input)
81	I-JOG B	I	Jog dial pulse input from the rotary encoder (jog dial) (B phase input)
82	I-JOG A	I	Jog dial pulse input from the rotary encoder (jog dial) (A phase input)
83	I-VOL B	I	Jog dial pulse input from the rotary encoder (VOLUME) (B phase input)
84	I-VOL A	I	Jog dial pulse input from the rotary encoder (VOLUME) (A phase input)
85	I-WRQ	I	CD interruption signal input from the CD DSP
86	I-CD DRF	I	CD focus on/off detection signal input from the CD DSP
87	I-LC72121 DI	I	Serial data input from the tuner unit
88	$\overline{\text{I-TUNER TUNE}}$	I	Tuning detection signal input from the tuner unit "L": tuned
89	VSS2	—	Ground terminal
90	VDD2	—	Power supply terminal (+3.3V)
91	O-LC72121/ M61529/BU2099 DO	O	Serial data output to the tuner unit, electrical volume and LED driver
92	O-LC72121/ BU2099 CLK	O	Serial data transfer clock signal output tuner unit, LED driver, tape mechanism controller, multi controller and bass boost controller
93	$\overline{\text{O-POWER LED}}$	O	LED drive signal output of the POWER ⏻ STANDBY/ON indicator "L": LED on
94	O-POWER RELAY	O	Power on/off relay drive signal output terminal "H": power on
95	$\overline{\text{O-KEYSCAN}}$	O	Key scan signal output for initial diode and switches in the tape mechanism deck "L": key scan
96	I-CD NUMBER SENS	I	CD table address detection signal input terminal
97	$\overline{\text{I-TUNER STEREO}}$	I	FM stereo detection signal input from the tuner unit "L": stereo
98	O-LC78646/ LC78684 DO	O	Serial data output to the CD DSP and MP3 decoder
99	I-LC78646/ LC78684 DI	I	Serial data input from the CD DSP and MP3 decoder
100	O-LC78646/ LC78684 CLK	O	Serial data transfer clock signal output to the CD DSP and MP3 decoder

SECTION 7
EXPLODED VIEWS

NOTE:
- -XX and -X mean standardized parts, so they may have some difference from the original one.
- Color Indication of Appearance Parts
  Example:
  KNOB, BALANCE (WHITE) . . . (RED)
  ↑ ↑
  Parts Color Cabinet's Color
- Items marked "*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- The mechanical parts with no reference number in the exploded views are not supplied.
- Accessories are given in the last of the electrical parts list.
- Abbreviation
  AUS : Australian model
  E51 : Chilean and Peruvian models
  SP : Singapore model

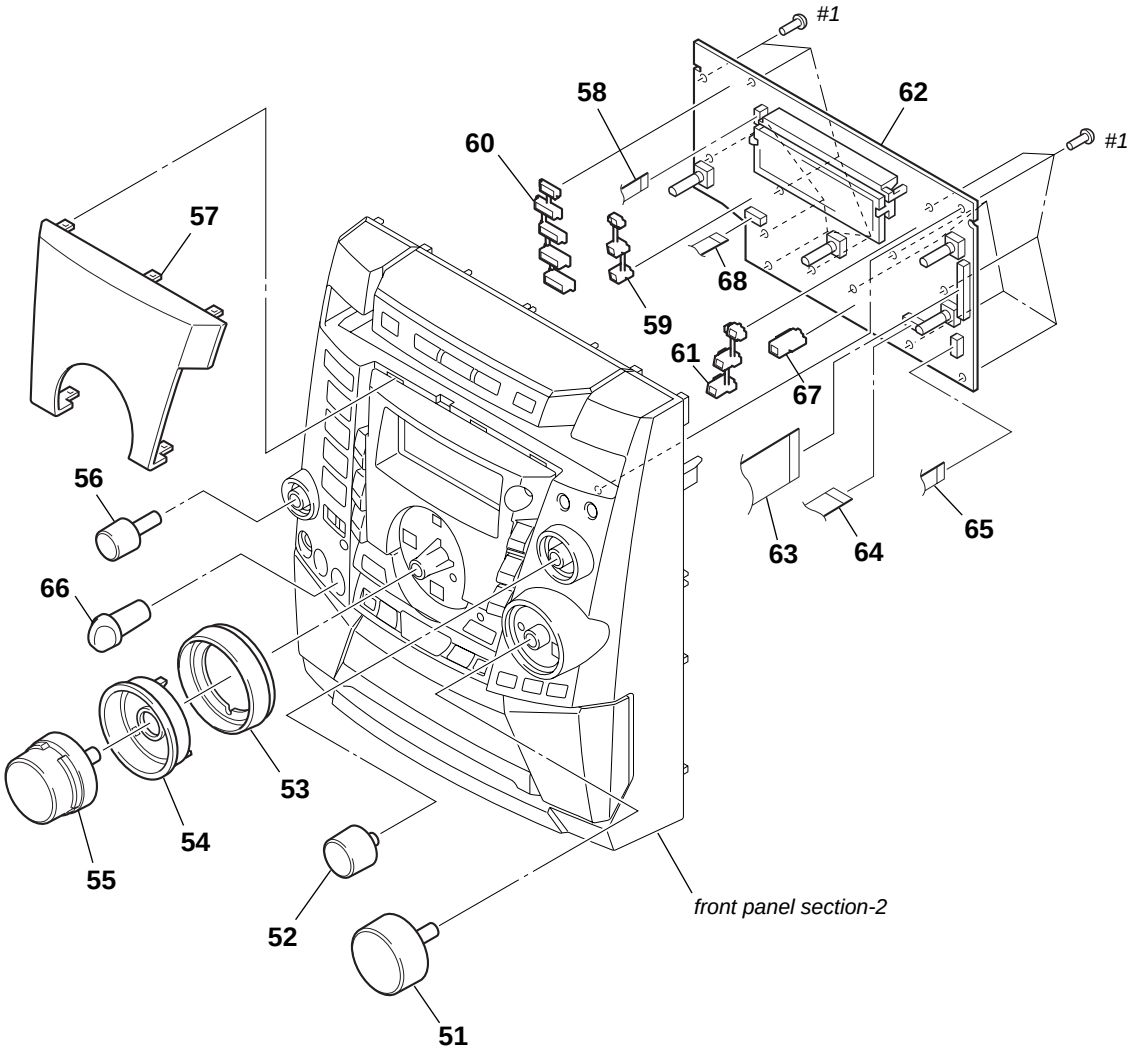
The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

7-1. CASE SECTION



Ref. No.	Part No.	Description	Remark
1	4-233-980-01	RUBBER FOOT	
2	4-246-682-01	EMBLEM (30), MP3	
3	4-245-158-01	EMBLEM	
4	4-245-113-01	PANEL, TRAY	
5	3-363-099-01	SCREW (CASE 3 TP2)	
6	3-363-099-41	SCREW (CASE 3 TP2)	
7	4-245-183-51	CASE (SIDE-L)	
8	4-244-849-51	CASE (TOP)	
9	4-245-184-51	CASE (SIDE-R)	
#1	7-685-647-79	SCREW +BVTP 3X10 TYPE2 N-S	

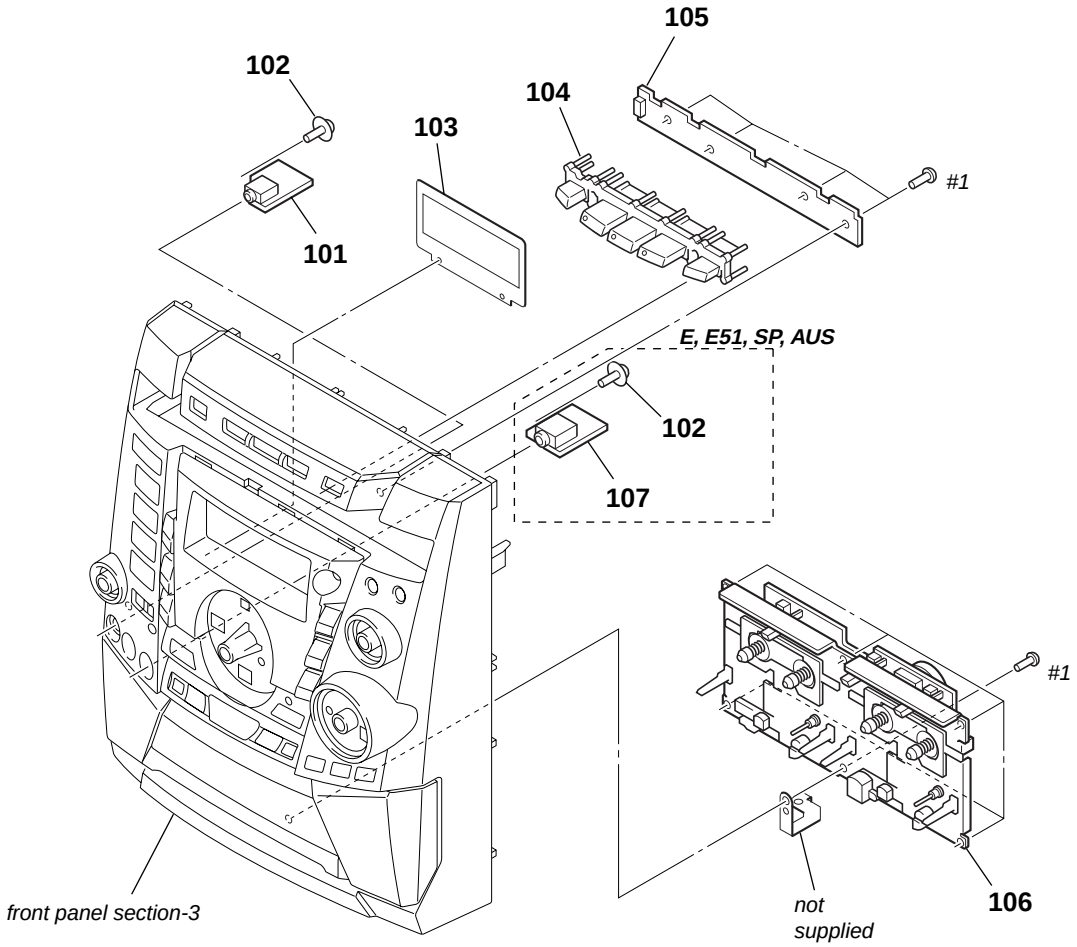
7-2. FRONT PANEL SECTION-1



Ref. No.	Part No.	Description	Remark
51	4-245-125-01	KNOB, ROTARY VOLUME	
52	4-245-126-01	KNOB, ROTARY JOG	
53	4-246-528-01	RING (BASS)	
54	4-245-131-01	PANEL, BASS	
55	4-245-128-01	KNOB, ROTARY BASS	(AEP, UK, CIS, E, SP, AUS)
55	4-245-132-01	KNOB, ROTARY BASS (LH) (E51)	
56	4-245-127-01	KNOB, ROTARY TREBLE	
57	4-245-114-11	WINDOW, DISPLAY (CIS)	
57	4-245-114-21	WINDOW, DISPLAY (AEP, UK)	
57	4-245-114-31	WINDOW, DISPLAY (E51)	
57	4-245-114-91	WINDOW, DISPLAY (E, SP, AUS)	
58	1-769-889-11	WIRE (FLAT TYPE) (7 CORE)	
59	4-245-135-01	GUIDE, LED GRAPHIC EQUALIZER (L)	

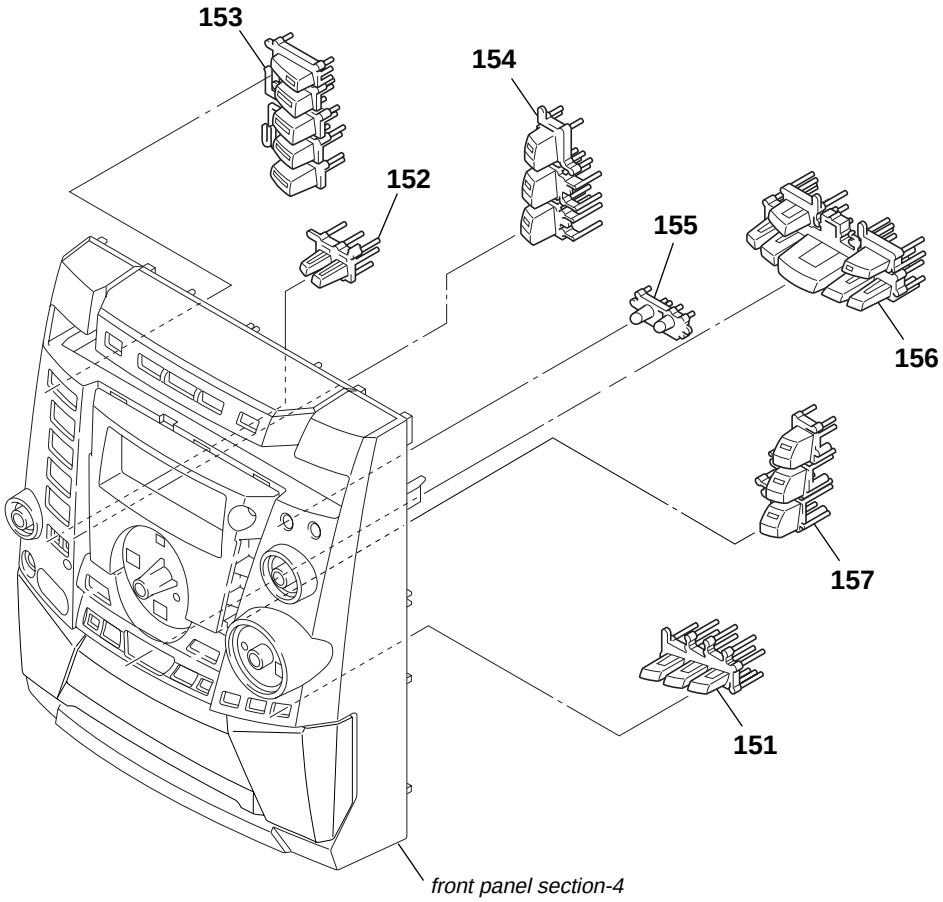
Ref. No.	Part No.	Description	Remark
60	4-245-134-01	GUIDE, LED POWER	
61	4-245-141-01	GUIDE, LED GRAPHIC EQUALIZER (R)	
62	A-4734-174-A	PANEL BOARD, COMPLETE (AEP, UK)	
62	A-4734-290-A	PANEL BOARD, COMPLETE (E51)	
62	A-4734-798-A	PANEL BOARD, COMPLETE (CIS)	
62	A-4734-949-A	PANEL BOARD, COMPLETE (E, SP, AUS)	
63	1-773-322-11	WIRE (FLAT TYPE) (31 CORE)	
64	1-769-976-11	WIRE (FLAT TYPE) (13 CORE)	
65	1-769-919-11	WIRE (FLAT TYPE) (9 CORE)	
66	4-245-119-01	KNOB, MICROPHONE (E, E51, SP, AUS)	
67	4-245-144-01	GUIDE, LED BASS	
68	1-827-399-11	WIRE (FLAT TYPE) (3 CORE) (E, E51, SP, AUS)	
#1	7-685-647-79	SCREW +BVTP 3X10 TYPE2 N-S	

7-3. FRONT PANEL SECTION-2



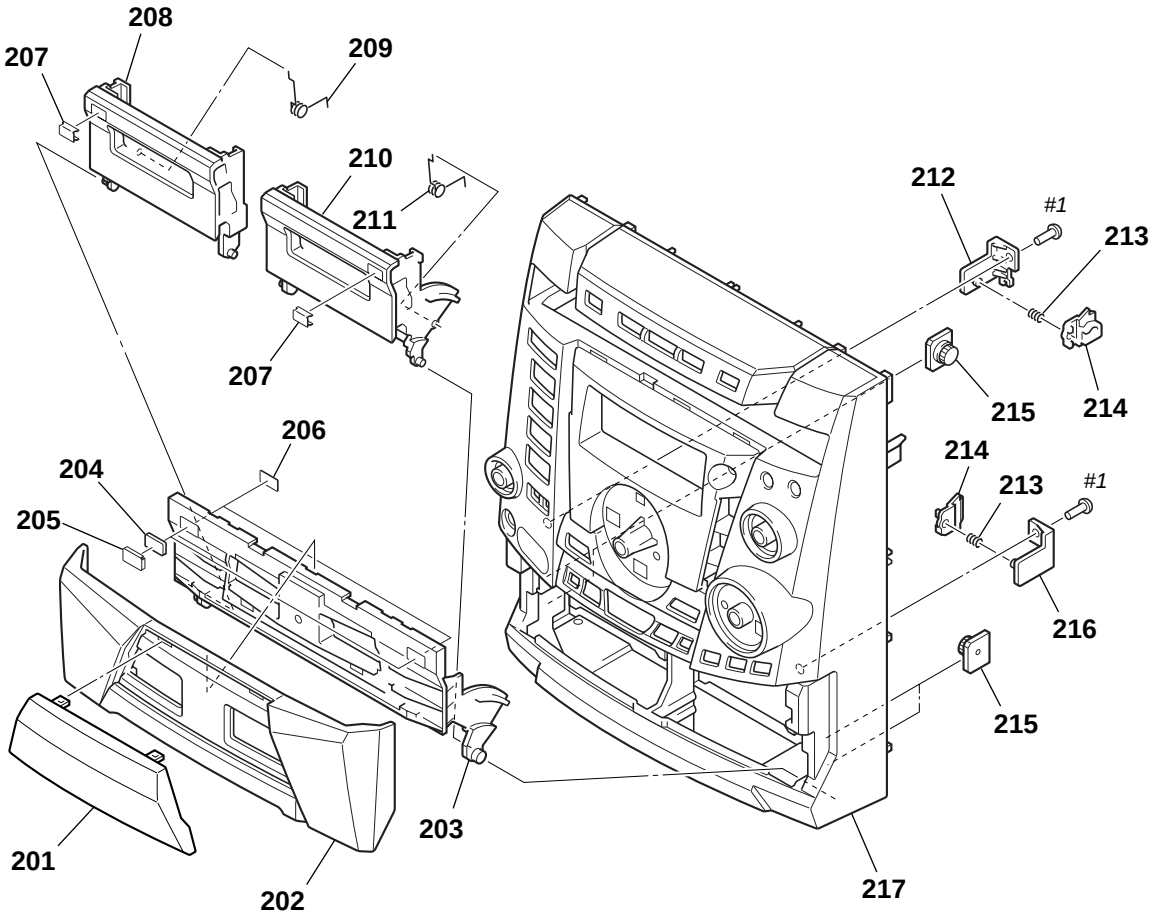
Ref. No.	Part No.	Description	Remark
101	1-688-545-11	HEADPHONE BOARD	
102	3-229-336-01	SCREW, +BVWH TAPPING	
103	4-245-142-01	SHEET, FL F4	
104	X-4955-415-1	KEY (CD) ASSY (DISC CHANGE. 1. 2. 3. ⏏)	
105	1-688-546-11	CD BUTTON BOARD	
106	1-796-487-41	DECK, MECHANICAL (CWM43RR23)	
107	1-688-547-11	MICROPHONE BOARD (E, E51, SP, AUS)	
#1	7-685-647-79	SCREW +BVTP 3X10 TYPE2 N-S	

7-4. FRONT PANEL SECTION-3



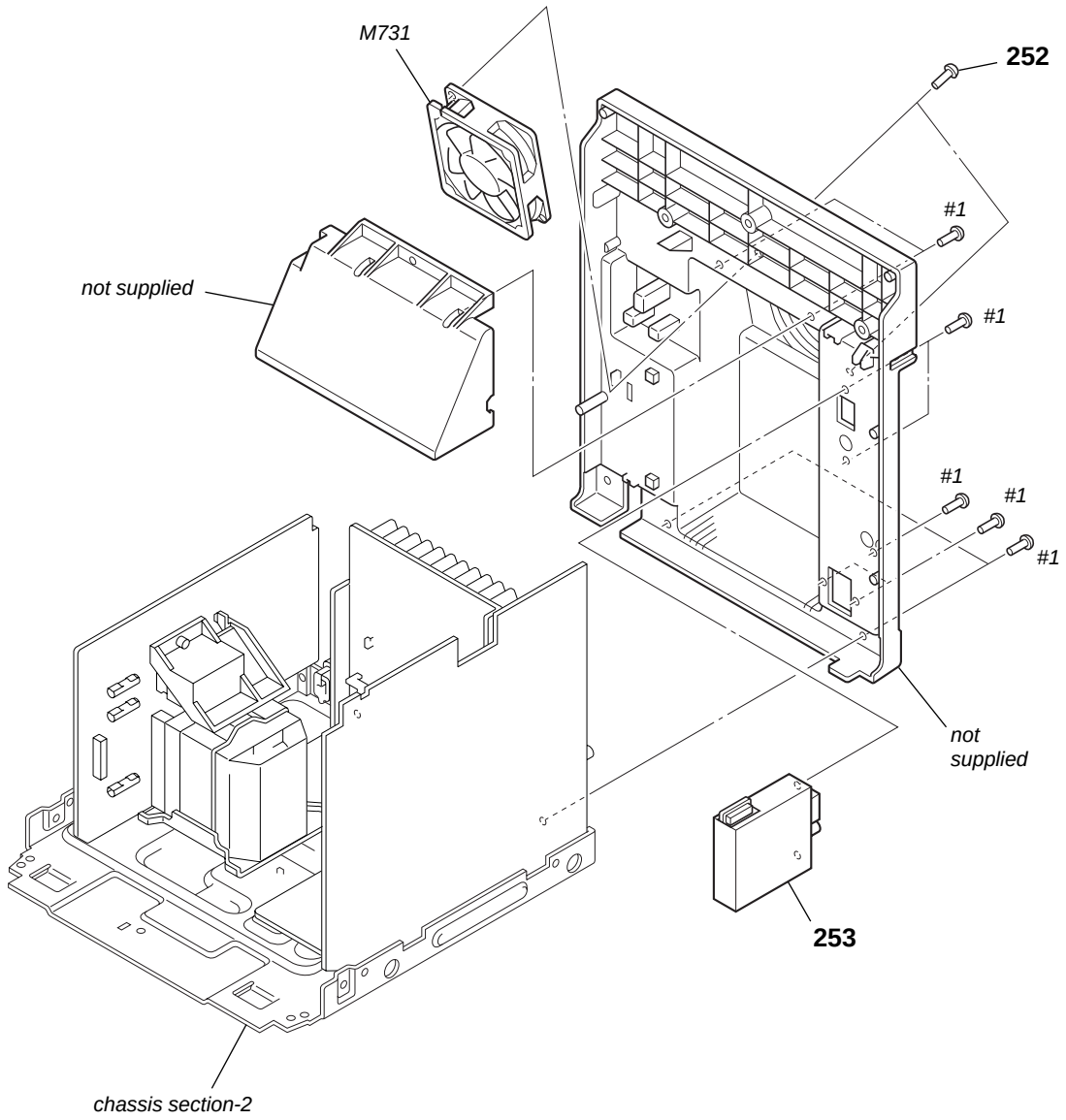
Ref. No.	Part No.	Description	Remark
151	4-245-124-01	KEY, RDS	
152	4-245-122-01	KEY, REC	
153	X-4955-411-1	KEY (POWER) ASSY	
154	X-4955-412-1	KEY (GEQ L) ASSY (HEAVY. VOCAL. SALSA)	
155	4-245-121-01	KEY, ENTER	
156	X-4955-414-1	KEY (OPE) ASSY (SURROUND. i-BASS. ◀◀. ▮▮.◀▶. ■. ▶▶)	
157	X-4955-413-1	KEY (GEQ R) ASSY (TECHNO. HIP HOP. MANUAL)	

7-5. FRONT PANEL SECTION-4



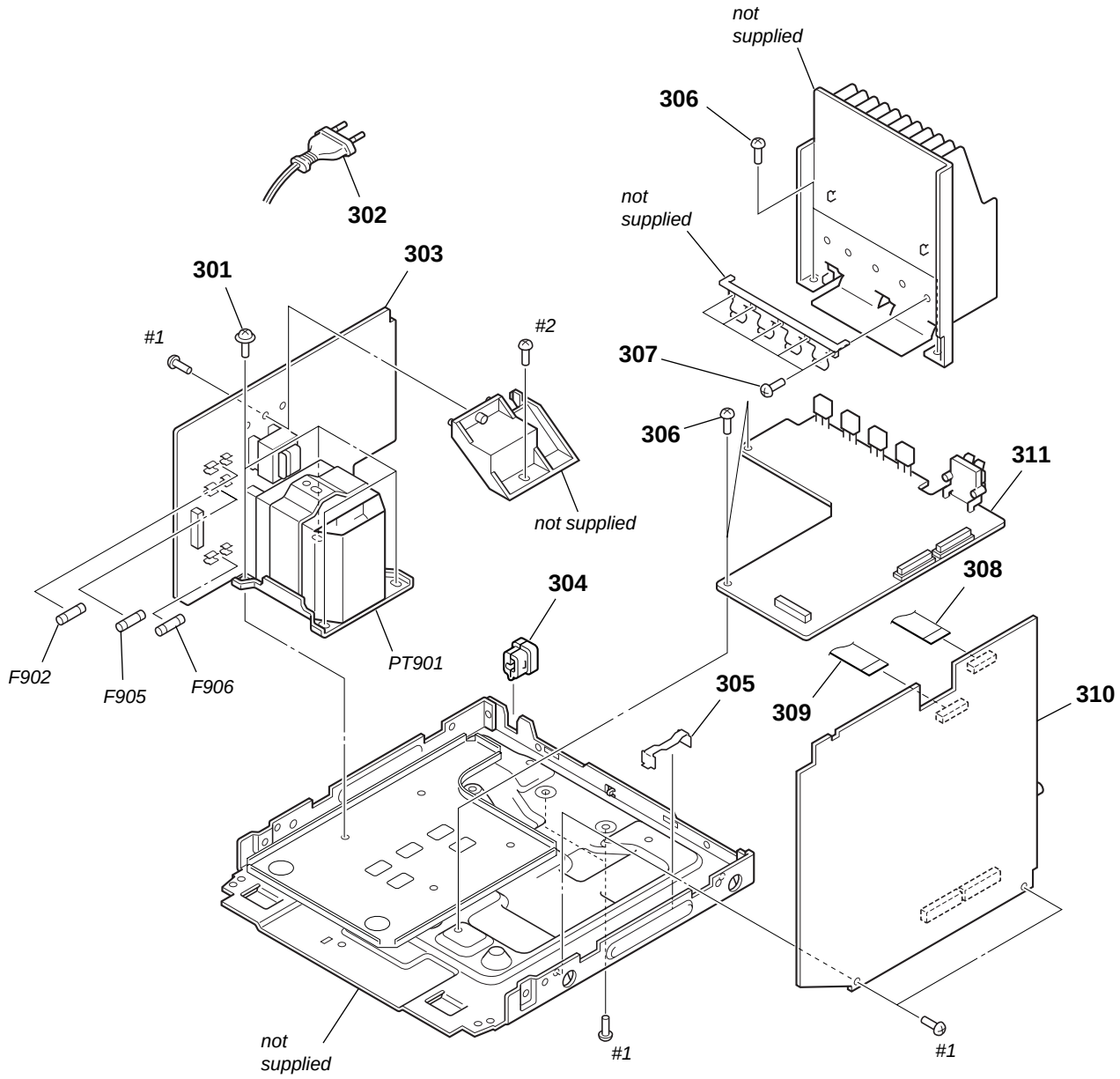
Ref. No.	Part No.	Description	Remark
201	4-245-115-01	WINDOW, CASSETTE	
202	4-245-111-01	PANEL, DOOR	
203	4-245-110-01	BOX, DOOR	
204	4-242-161-01	MAGNET, BOX	
205	4-242-163-01	COVER, MAGNET	
206	4-242-164-01	SH, W/ADH	
207	4-242-162-01	PLATE, BOX	
208	4-245-112-01	BOX, CASSETTE (1)	
209	4-245-009-01	SPR-T, BOX CASS L	
210	4-245-138-01	BOX, CASSETTE (2)	
211	4-245-010-01	SPR-T, BOX CASS R	
212	4-242-174-01	HLDR, LOCK 1	
213	4-242-173-01	SPR-C, LOCK	
214	4-242-172-01	PLATE, LOCK	
215	4-224-104-41	DAMPER	
216	4-242-175-01	HLDR, LOCK2	
217	4-245-108-11	CABINET, FRONT (E, E51, SP, AUS)	
217	4-245-108-21	CABINET, FRONT (AEP, UK)	
217	4-245-108-31	CABINET, FRONT (CIS)	
#1	7-685-647-79	SCREW +BVTP 3X10 TYPE2 N-S	

7-6. CHASSIS SECTION-1



Ref. No.	Part No.	Description	Remark
252	4-951-620-41	SCREW (2.6), +BVTP	
253	1-693-626-11	TUNER (FM/AM) (AEP, UK)	
253	1-693-627-11	TUNER (FM/AM) (CIS)	
253	1-693-628-21	TUNER (FM/AM) (E, E51, SP, AUS)	
#1	7-685-647-79	SCREW +BVTP 3X10 TYPE2 N-S	
M731	1-763-072-11	FAN, DC	

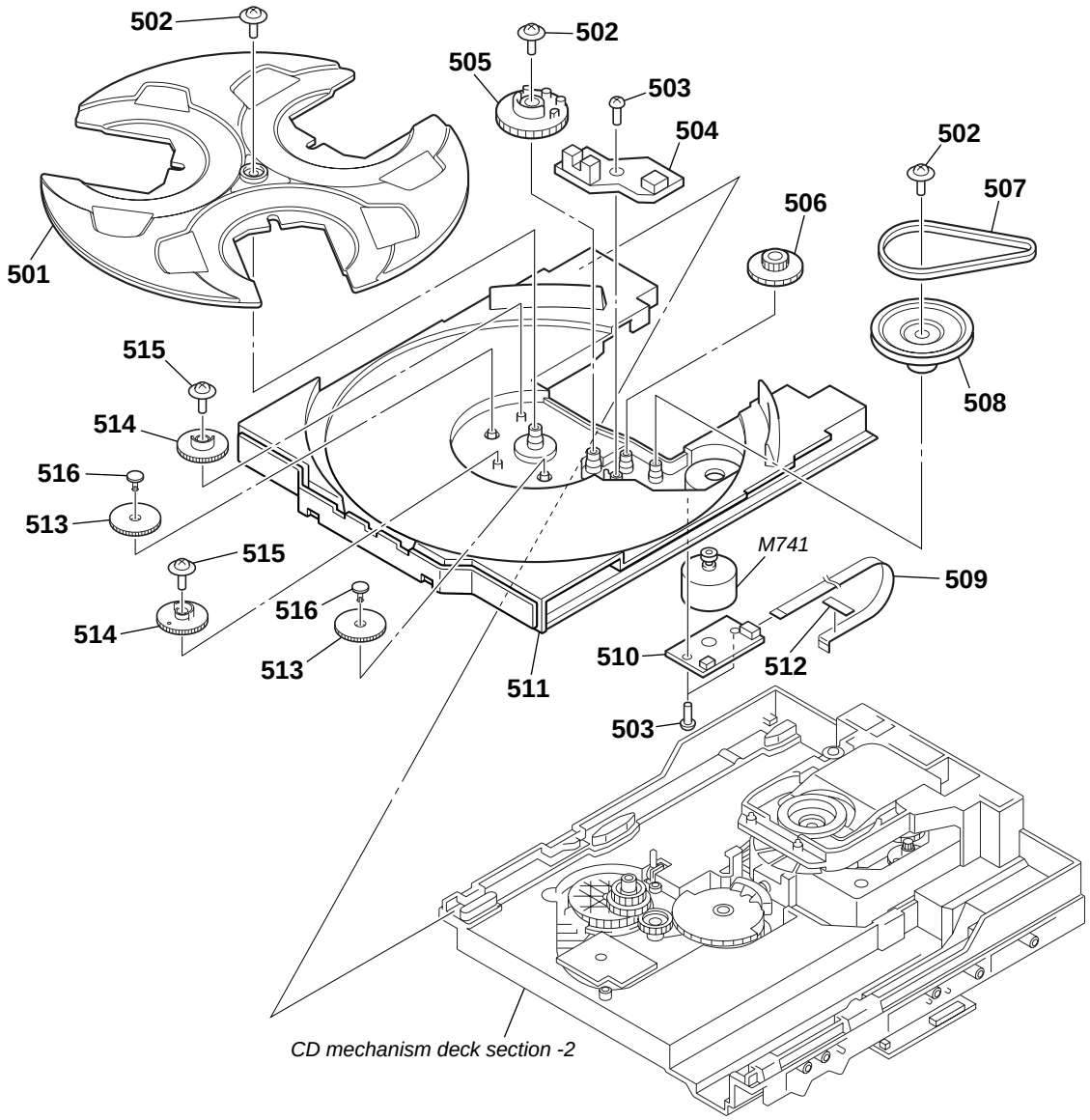
7-7. CHASSIS SECTION-2



The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

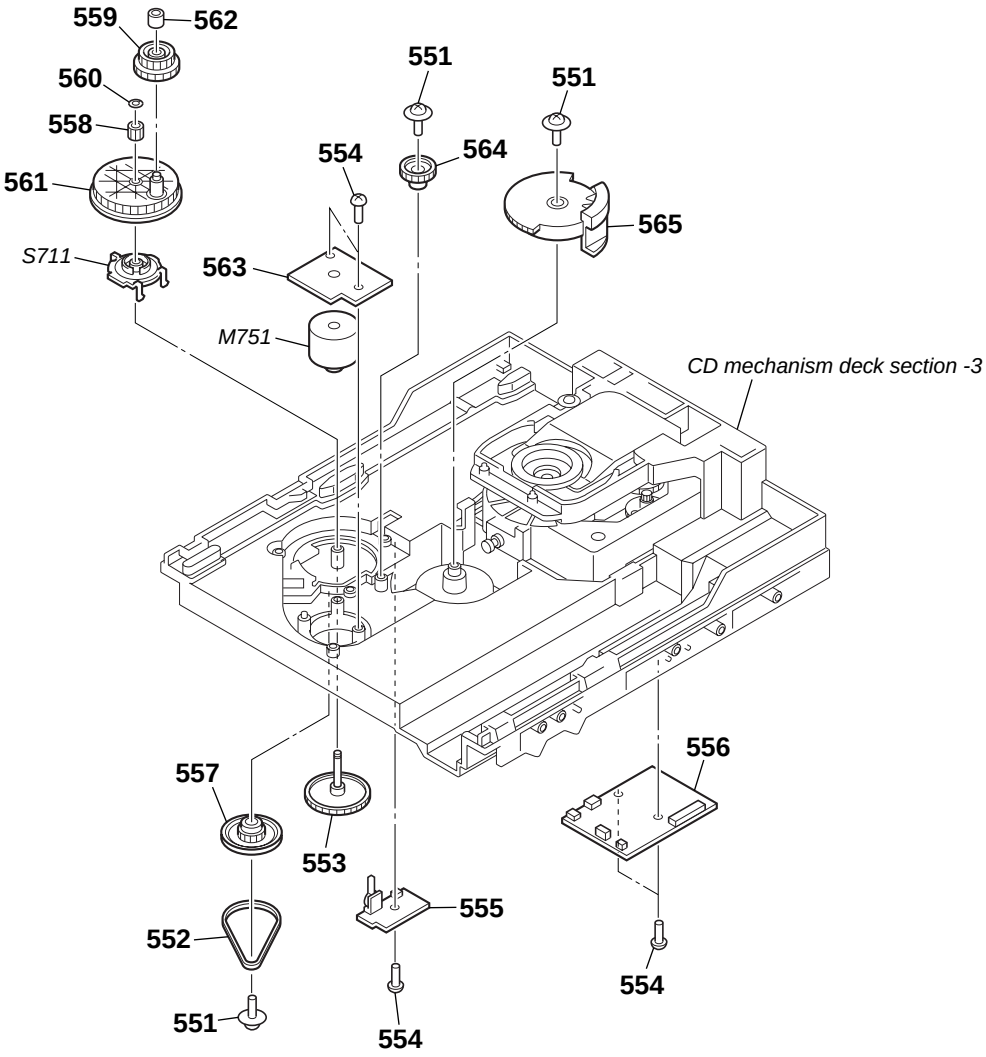
Ref. No.	Part No.	Description	Remark
301	4-242-526-01	S-SCREW, ITC+4-10 R	
⚠302	1-792-948-12	CORD, POWER (E)	
⚠302	1-777-071-83	CORD, POWER (AEP, CIS, SP, E51)	
⚠302	1-783-532-11	CORD, POWER (UK)	
⚠302	1-792-948-12	CORD, POWER (AUS)	
303	1-688-760-12	TRANSFORMER BOARD (AEP, UK, CIS, E51)	
303	1-688-960-11	TRANSFORMER BOARD (E, SP, AUS)	
* 304	3-703-244-00	BUSHING (2104), CORD	
305	4-988-533-01	HOLDER, PWB	
306	4-242-539-01	BVIT3B-8R W/O SLOT	
307	3-905-609-01	SCREW (TRANSISTOR)	
308	1-769-939-11	WIRE (FLAT TYPE) (11 CORE) (CIS, E, E51, SP, AUS)	
308	1-773-003-11	WIRE (FLAT TYPE) (15 CORE) (AEP, UK)	
309	1-827-146-11	WIRE (FLAT TYPE) (19 CORE)	
310	A-4734-192-A	MAIN BOARD, COMPLETE (AEP, UK)	
310	A-4734-455-A	MAIN BOARD, COMPLETE (E51)	
310	A-4734-803-A	MAIN BOARD, COMPLETE (CIS)	
310	A-4734-957-A	MAIN BOARD, COPMPLETE (E, SP, AUS)	
311	A-4734-177-A	POWER BOARD, COMPLETE (AEP, UK, CIS)	
311	A-4734-293-A	POWER BOARD, COMPLETE (E51)	
311	A-4734-952-A	POWER BOARD, COMPLETE (E, SP)	
311	A-4734-959-A	POWER BOARD, COMPLETE (AUS)	
⚠F902	1-533-469-11	FUSE, GLASS TUBE (DIA. 5) (T2.5AL/250V)	
⚠F905	1-576-655-11	FUSE, GLASS TUBE (DIA. 5) (T8AL/250V)	
⚠F906	1-576-655-11	FUSE, GLASS TUBE (DIA. 5) (T8AL/250V)	
⚠PT901	1-439-787-11	TRANSFORMER, POWER (E51)	
⚠PT901	1-439-789-11	TRANSFORMER, POWER (AEP, UK, CIS)	
⚠PT901	1-439-940-11	TRANSFORMER, POWER (E, SP, AUS)	
#1	7-685-647-79	SCREW +BVTP 3X10 TYPE2 N-S	
#2	7-685-872-09	SCREW +BVTT 3X8 (S)	

7-8. CD MECHANISM DECK SECTION-1 (CDM74F-K6BD71A)



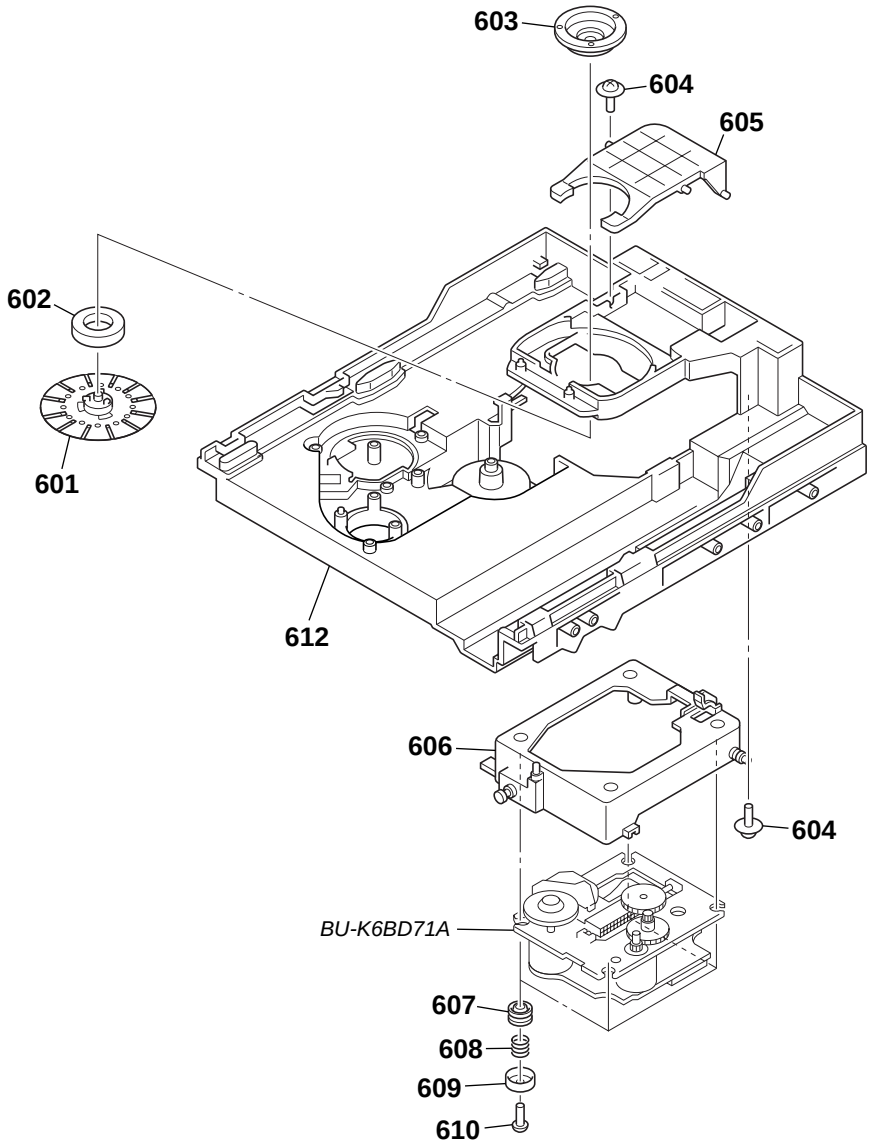
Ref. No.	Part No.	Description	Remark
501	-243-815-01	TABLE (LOADING)	
502	4-218-252-61	SCREW (+PTPWH M2.6), FLOATING	
503	4-218-253-21	SCREW (M2.6), +BTTP	
504	1-687-132-11	SENSOR BOARD	
505	4-243-819-01	GEAR (GENEVA)	
506	4-243-820-01	GEAR (TABLE)	
507	4-243-823-01	BELT (TABLE)	
508	4-243-821-01	PULLEY (TABLE)	
509	1-776-182-11	WIRE (FLAT TYPE) (5 CORE)	
510	1-687-134-11	MOTOR (TB) BOARD	
511	4-243-816-01	TRAY	
512	3-231-598-01	SHEET (BA)	
513	4-245-570-01	GEAR (JOINT)	
514	4-245-571-01	GEAR (STOPPER)	
515	4-985-672-01	SCREW (+PTPWH M2.6), FLOATING	
516	4-245-572-01	BUSHING (GEAR)	
M741	A-4723-963-A	MOTOR ASSY, TABLE	

7-9. CD MECHANISM DECK SECTION-2 (CDM74F-K6BD71A)



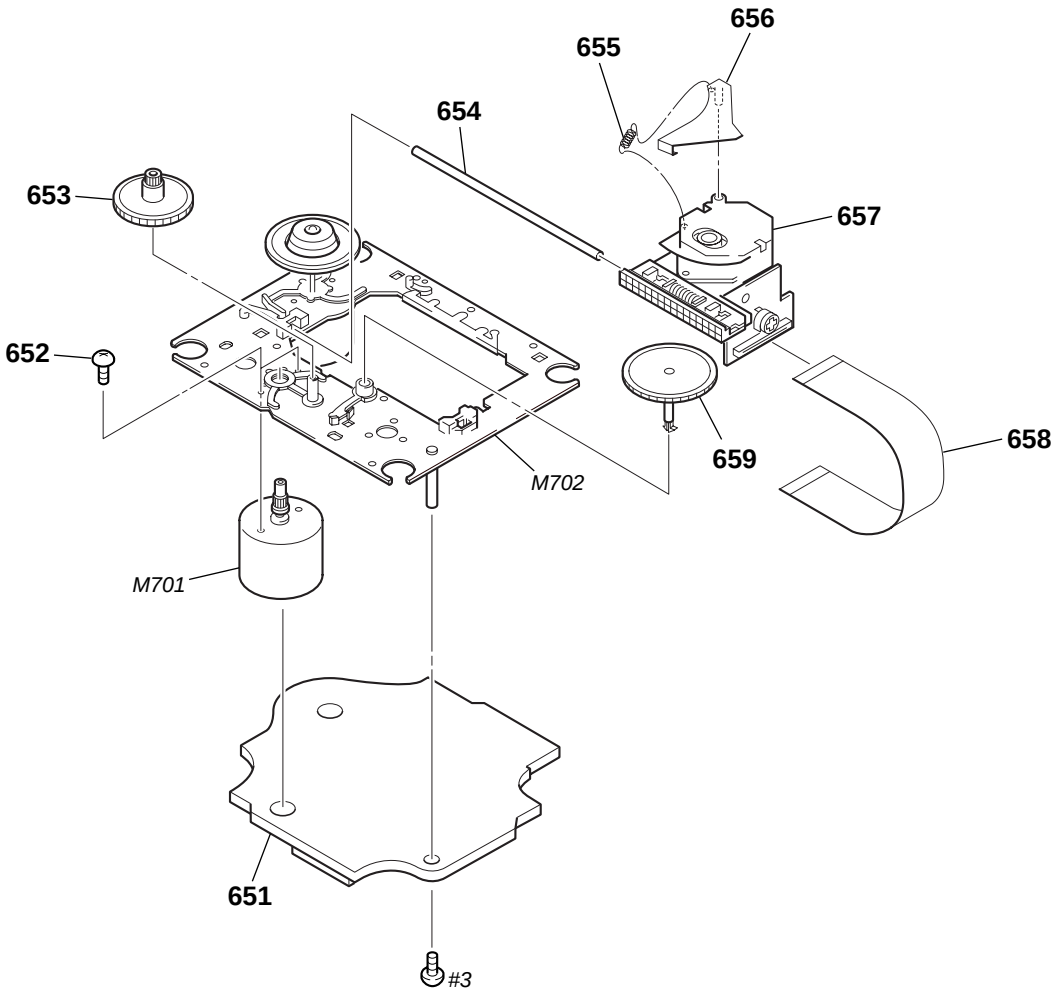
Ref. No.	Part No.	Description	Remark
551	4-218-252-61	SCREW (+PTPWH M2.6), FLOATING	
552	4-244-034-01	BELT (LOADING)	
553	4-224-613-01	GEAR (SHAFT)	
554	4-218-253-31	SCREW (M2.6), +BTTP	
555	1-687-669-11	SW BOARD	
556	1-687-135-11	DRIVER BOARD	
557	4-225-844-01	GEAR (LOADING A)	
558	4-224-611-01	GEAR (LOADING B)	
559	4-224-609-01	GEAR (LOADING C)	
560	3-016-533-11	WASHER (FR), STOPPER	
561	4-244-108-01	GEAR, SWING	
562	4-224-608-01	COLLAR, SWING	
563	1-687-133-11	MOTOR (LD) BOARD	
564	4-224-606-01	GEAR (RV)	
565	4-243-818-01	GEAR (U/D)	
M751	A-4736-655-A	MOTOR ASSY, LOADING	
S711	1-477-680-11	ENCODER, ROTARY (DISC TRAY ADDRESS DETECT)	

7-10. CD MECHANISM DECK SECTION-3 (CDM74F-K6BD71A)



Ref. No.	Part No.	Description	Remark
601	X-4955-707-1	PULLEY (A5) ASSY, CHUCKING	
602	1-471-035-11	MAGNET ASSY	
603	4-231-189-01	PULLEY (B), CHUCKING	
604	4-218-252-61	SCREW (+PTPWH M2.6), FLOATING	
605	4-243-822-01	LEVER (LIFTER)	
606	X-4955-536-1	HOLDER (213) ASSY	
607	4-227-549-11	INSULATOR	
608	4-227-045-31	SPRING (INSULATOR), COIL	
609	4-231-151-01	STOPPER (BU)	
610	4-218-253-31	SCREW (M2.6), +BTTP	
612	4-243-817-01	CHASSIS	

7-11. BASE UNIT SECTION (BU-K6BD71A)



The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

Ref. No.	Part No.	Description	Remark
651	A-4732-699-A	BD BOARD, COMPLETE	
652	3-713-786-51	SCREW (M2X3)	
653	2-627-003-01	GEAR (B) (RP)	
654	2-626-908-51	SHAFT, SLED	
655	2-646-702-01	SPRING, EXTENSION	
656	2-646-697-02	SHUTTER (F), LENS	
⚠657	8-820-020-11	OPTICAL PICK-UP KSS-213D/Z-RP	
658	1-823-859-11	WIRE (FLAT TYPE) (16 CORE)	
659	2-625-188-02	GEAR (A)	
M701	X-2625-769-1	GEAR ASSY (MB) (RP), MOTOR (SLED)	
M702	X-2161-802-1	CHASSIS ASSY (DCP), T. T (SPINDLE)	
#3	7-685-534-19	SCREW +BTP 2.6X8 TYPE2 N-S	

SECTION 8
ELECTRICAL PARTS LIST

BD

NOTE:
- Due to standardization, replacements in the parts list may be different from the parts specified in the diagrams or the components used on the set.
- -XX and -X mean standardized parts, so they may have some difference from the original one.
- RESISTORS
  All resistors are in ohms.
  METAL: Metal-film resistor.
  METAL OXIDE: Metal oxide-film resistor.
  F: nonflammable
- Abbreviation
  AUS : Australian model
  E51 : Chilean and Peluvian models
  SP : Singapore model
- Items marked "*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- SEMICONDUCTORS
  In each case, u: µ, for example:
  uA. . : µA. . uPA. . : µPA. .
  uPB. . : µPB. . uPC. . : µPC. .
  uPD. . : µPD. .
- CAPACITORS
  uF: µF
- COILS
  uH: µH

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

When indicating parts by reference number, please include the board.

Ref. No.	Part No.	Description			Remark
	A-4732-699-A	BD BOARD, COMPLETE			
		**********			
		< CAPACITOR >			
C701	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C702	1-126-392-11	ELECT CHIP	100uF	20%	6.3V
C703	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C704	1-126-391-11	ELECT CHIP	47uF	20%	6.3V
C705	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C706	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C707	1-126-392-11	ELECT CHIP	100uF	20%	6.3V
C708	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C709	1-126-392-11	ELECT CHIP	100uF	20%	6.3V
C710	1-165-176-11	CERAMIC CHIP	0.047uF	10%	16V
C711	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C712	1-162-949-11	CERAMIC CHIP	47PF	5%	50V
C713	1-162-968-11	CERAMIC CHIP	0.0047uF	10%	50V
C714	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C715	1-126-401-21	ELECT CHIP	1uF	20%	50V
C716	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C717	1-162-968-11	CERAMIC CHIP	0.0047uF	10%	50V
C718	1-115-156-11	CERAMIC CHIP	1uF		10V
C719	1-162-968-11	CERAMIC CHIP	0.0047uF	10%	50V
C720	1-162-953-11	CERAMIC CHIP	100PF	5%	50V
C721	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C722	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C723	1-126-392-11	ELECT CHIP	100uF	20%	6.3V
C729	1-128-360-11	ELECT CHIP	220uF	20%	10V
C731	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C732	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C733	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C734	1-162-917-11	CERAMIC CHIP	15PF	5%	50V
C735	1-162-918-11	CERAMIC CHIP	18PF	5%	50V
C741	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C742	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C743	1-165-176-11	CERAMIC CHIP	0.047uF	10%	16V
C744	1-125-837-11	CERAMIC CHIP	1uF	10%	6.3V
C746	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C747	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C748	1-128-360-11	ELECT CHIP	220uF	20%	10V
C753	1-162-949-11	CERAMIC CHIP	47PF	5%	50V
C754	1-162-949-11	CERAMIC CHIP	47PF	5%	50V
C756	1-162-949-11	CERAMIC CHIP	47PF	5%	50V
C802	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C803	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C804	1-162-945-11	CERAMIC CHIP	22PF	5%	50V
C805	1-126-392-11	ELECT CHIP	100uF	20%	6.3V
C806	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C807	1-126-392-11	ELECT CHIP	100uF	20%	6.3V
C810	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C811	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C812	1-115-156-11	CERAMIC CHIP	1uF		10V
C813	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C814	1-126-392-11	ELECT CHIP	100uF	20%	6.3V
C815	1-128-360-11	ELECT CHIP	220uF	20%	10V
C816	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C817	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C823	1-162-949-11	CERAMIC CHIP	47PF	5%	50V
C824	1-162-949-11	CERAMIC CHIP	47PF	5%	50V
C825	1-162-949-11	CERAMIC CHIP	47PF	5%	50V
C829	1-162-949-11	CERAMIC CHIP	47PF	5%	50V
C830	1-162-945-11	CERAMIC CHIP	22PF	5%	50V
C831	1-162-945-11	CERAMIC CHIP	22PF	5%	50V
C834	1-128-360-11	ELECT CHIP	220uF	20%	10V
C835	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C837	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C843	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C844	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C856	1-115-156-11	CERAMIC CHIP	1uF		10V
C857	1-162-945-11	CERAMIC CHIP	22PF	5%	50V
C858	1-162-945-11	CERAMIC CHIP	22PF	5%	50V
C859	1-162-945-11	CERAMIC CHIP	22PF	5%	50V
C860	1-162-953-11	CERAMIC CHIP	100PF	5%	50V
		< CONNECTOR >			
CN708	1-817-244-11	CONNECTOR, FFC 16P			
CN710	1-778-874-11	CONNECTOR, FFC (LIF (NON-ZIF)) 19P			
		< FERRITE BEAD >			
FB701	1-550-907-21	FERRITE	0uH		
FB707	1-550-907-21	FERRITE	0uH		
FB708	1-550-907-21	FERRITE	0uH		
FB801	1-550-907-21	FERRITE	0uH		
FB802	1-550-907-21	FERRITE	0uH		
FB803	1-550-907-21	FERRITE	0uH		
FB804	1-550-907-21	FERRITE	0uH		
FB805	1-550-907-21	FERRITE	0uH		

BD **CD BUTTON**

Ref. No.	Part No.	Description			Remark
FB806	1-550-907-21	FERRITE	0uH		
FB807	1-550-907-21	FERRITE	0uH		
FB808	1-550-907-21	FERRITE	0uH		
		< IC >			
IC721	6-701-796-01	IC LC78646E-E			
IC722	6-704-220-01	IC BA5836FP			
IC801	6-704-008-01	IC LC78684E-E			
IC802	6-704-009-01	IC LC32V4265CT-25-MPB-E			
IC803	6-704-007-01	IC MM1571J			
		< TRANSISTOR >			
Q701	8-729-054-51	TRANSISTOR	UP04116008S0		
		< RESISTOR >			
R701	1-216-841-11	METAL CHIP	47K	5%	1/10W
R702	1-216-835-11	METAL CHIP	15K	5%	1/10W
R703	1-216-835-11	METAL CHIP	15K	5%	1/10W
R704	1-216-835-11	METAL CHIP	15K	5%	1/10W
R705	1-216-835-11	METAL CHIP	15K	5%	1/10W
R706	1-216-841-11	METAL CHIP	47K	5%	1/10W
R707	1-216-797-11	METAL CHIP	10	5%	1/10W
R708	1-216-833-11	METAL CHIP	10K	5%	1/10W
R709	1-216-838-11	METAL CHIP	27K	5%	1/10W
R711	1-216-815-11	METAL CHIP	330	5%	1/10W
R713	1-216-821-11	METAL CHIP	1K	5%	1/10W
R714	1-216-809-11	METAL CHIP	100	5%	1/10W
R715	1-216-809-11	METAL CHIP	100	5%	1/10W
R716	1-216-809-11	METAL CHIP	100	5%	1/10W
R717	1-216-809-11	METAL CHIP	100	5%	1/10W
R718	1-216-809-11	METAL CHIP	100	5%	1/10W
R719	1-216-809-11	METAL CHIP	100	5%	1/10W
R720	1-216-809-11	METAL CHIP	100	5%	1/10W
R721	1-216-809-11	METAL CHIP	100	5%	1/10W
R722	1-216-821-11	METAL CHIP	1K	5%	1/10W
R725	1-216-819-11	METAL CHIP	680	5%	1/10W
R726	1-216-819-11	METAL CHIP	680	5%	1/10W
R727	1-216-809-11	METAL CHIP	100	5%	1/10W
R728	1-216-841-11	METAL CHIP	47K	5%	1/10W
R729	1-216-834-11	METAL CHIP	12K	5%	1/10W
R730	1-216-822-11	METAL CHIP	1.2K	5%	1/10W
R731	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R732	1-216-864-11	SHORT CHIP	0		
R738	1-218-867-11	METAL CHIP	6.8K	5%	1/10W
R739	1-216-864-11	SHORT CHIP	0		
R740	1-218-867-11	METAL CHIP	6.8K	5%	1/10W
R741	1-216-864-11	SHORT CHIP	0		
R744	1-216-845-11	METAL CHIP	100K	5%	1/10W
R745	1-216-809-11	METAL CHIP	100	5%	1/10W
R746	1-216-803-11	METAL CHIP	33	5%	1/10W
R747	1-216-803-11	METAL CHIP	33	5%	1/10W
R760	1-216-809-11	METAL CHIP	100	5%	1/10W
R765	1-216-857-11	METAL CHIP	1M	5%	1/10W
R801	1-216-809-11	METAL CHIP	100	5%	1/10W
R802	1-216-809-11	METAL CHIP	100	5%	1/10W
R803	1-216-809-11	METAL CHIP	100	5%	1/10W
R804	1-216-809-11	METAL CHIP	100	5%	1/10W
R805	1-216-809-11	METAL CHIP	100	5%	1/10W
R806	1-216-809-11	METAL CHIP	100	5%	1/10W
R807	1-216-809-11	METAL CHIP	100	5%	1/10W
R817	1-216-827-11	METAL CHIP	3.3K	5%	1/10W
R818	1-216-811-11	METAL CHIP	150	5%	1/10W
R819	1-216-821-11	METAL CHIP	1K	5%	1/10W
R820	1-216-821-11	METAL CHIP	1K	5%	1/10W
R823	1-216-809-11	METAL CHIP	100	5%	1/10W
R824	1-216-809-11	METAL CHIP	100	5%	1/10W
R825	1-216-809-11	METAL CHIP	100	5%	1/10W
R826	1-216-809-11	METAL CHIP	100	5%	1/10W
R827	1-216-809-11	METAL CHIP	100	5%	1/10W
R828	1-216-809-11	METAL CHIP	100	5%	1/10W
R829	1-216-809-11	METAL CHIP	100	5%	1/10W
R832	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R833	1-216-809-11	METAL CHIP	100	5%	1/10W
R834	1-216-809-11	METAL CHIP	100	5%	1/10W
R860	1-216-809-11	METAL CHIP	100	5%	1/10W
		< SWITCH >			
S701	1-771-853-11	SWITCH, DETECTION (LIMIT IN)			
		< VIBRATOR >			
X701	1-767-408-21	VIBRATOR, CRYSTAL (16.9344MHz)			
**********					
	1-688-546-11	CD BUTTON BOARD			
		**********			
		< CONNECTOR >			
CN302	1-568-850-11	CONNECTOR, FFC 7P			
		< LED >			
LED301	8-719-063-93	LED SLR325VC-N-T32(DISC DIRECT PLAY 1)			
LED302	8-719-063-93	LED SLR325VC-N-T32(DISC DIRECT PLAY 2)			
LED303	8-719-063-93	LED SLR325VC-N-T32(DISC DIRECT PLAY 3)			
		< RESISTOR >			
R327	1-247-843-11	CARBON	3.3K	5%	1/4W
R328	1-249-425-11	CARBON	4.7K	5%	1/4W
R329	1-249-427-11	CARBON	6.8K	5%	1/4W
R330	1-249-429-11	CARBON	10K	5%	1/4W
R331	1-249-429-11	CARBON	10K	5%	1/4W
R332	1-249-417-11	CARBON	1K	5%	1/4W
R341	1-249-417-11	CARBON	1K	5%	1/4W
R342	1-249-417-11	CARBON	1K	5%	1/4W
		< SWITCH >			
S327	1-762-875-21	SWITCH, KEYBOARD (DISC CHANGE/DISC SKIP)			
S328	1-762-875-21	SWITCH, KEYBOARD (DISC DIRECT PLAY 1)			
S329	1-762-875-21	SWITCH, KEYBOARD (DISC DIRECT PLAY 2)			
S330	1-762-875-21	SWITCH, KEYBOARD (DISC DIRECT PLAY 3)			
S331	1-762-875-21	SWITCH, KEYBOARD (⏏ OPEN/CLOSE)			
**********					

DRIVER HEADPHONE MAIN

Ref. No.	Part No.	Description			Remark
	1-687-135-11	DRIVER BOARD			
		**********			
		< CAPACITOR >			
C715	1-126-933-11	ELECT	100uF	20%	16V
C731	1-126-964-11	ELECT	10uF	20%	50V
C735	1-164-159-21	CERAMIC	0.1uF		50V
C736	1-164-159-21	CERAMIC	0.1uF		50V
C737	1-164-159-21	CERAMIC	0.1uF		50V
C741	1-162-306-11	CERAMIC	0.01uF	30%	16V
C751	1-162-306-11	CERAMIC	0.01uF	30%	16V
C752	1-164-159-21	CERAMIC	0.1uF		50V
		< CONNECTOR >			
CN701	1-785-338-11	PIN, CONNECTOR (LIGHT ANGLE) 12P			
CN702	1-784-766-11	CONNECTOR, FFC 5P			
* CN703	1-564-720-11	PIN, CONNECTOR (SMALL TYPE) 4P			
CN704	1-785-328-11	PIN, CONNECTOR (LIGHT ANGRE) 2P			
		< DIODE >			
D701	8-719-921-42	DIODE MTZJ-5.1A			
D711	8-719-109-69	DIODE RD3.6ES-B2			
		< IC >			
IC701	8-759-598-69	IC BA6956AN			
IC712	8-759-598-69	IC BA6956AN			
		< TRANSISTOR >			
Q731	8-729-029-66	TRANSISTOR	DTC114ESA		
		< RESISTOR >			
R701	1-249-413-11	CARBON	470	5%	1/4W
R702	1-247-807-31	CARBON	100	5%	1/4W
R711	1-249-417-11	CARBON	1K	5%	1/4W
R712	1-249-425-11	CARBON	4.7K	5%	1/4W
R713	1-249-433-11	CARBON	22K	5%	1/4W
R721	1-249-425-11	CARBON	4.7K	5%	1/4W
R722	1-249-425-11	CARBON	4.7K	5%	1/4W
R723	1-249-425-11	CARBON	4.7K	5%	1/4W
R731	1-247-807-31	CARBON	100	5%	1/4W
R732	1-249-429-11	CARBON	10K	5%	1/4W
R733	1-249-417-11	CARBON	1K	5%	1/4W
R734	1-249-430-11	CARBON	12K	5%	1/4W
R735	1-247-807-31	CARBON	100	5%	1/4W
R751	1-249-425-11	CARBON	4.7K	5%	1/4W
**********					
	1-688-545-11	HEADPHONE BOARD			
		**********			
		< CAPACITOR >			
C301	1-115-416-11	CERAMIC CHIP	0.001uF	5%	25V
C302	1-115-416-11	CERAMIC CHIP	0.001uF	5%	25V
		< JACK >			
J221	1-793-829-11	JACK, HEADPHONE (PHONES)			
**********					

Ref. No.	Part No.	Description			Remark
	A-4734-192-A	MAIN BOARD, COMPLETE (AEP, UK)			
	A-4734-455-A	MAIN BOARD, COMPLETE (E51)			
	A-4734-803-A	MAIN BOARD, COMPLETE (CIS)			
	A-4734-957-A	MAIN BOARD, COMPLETE (E, SP, AUS)			
		**********			
	7-685-647-79	SCREW +BVTP 3X10 TYPE2 N-S			
		< CAPACITOR >			
C101	1-126-963-11	ELECT	4.7uF	20%	50V
C102	1-126-963-11	ELECT	4.7uF	20%	50V
C103	1-126-933-11	ELECT	100uF	20%	16V
C108	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V (AEP, UK, CIS)
C201	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C202	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C203	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C204	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C221	1-126-947-11	ELECT	47uF	20%	16V
C223	1-130-973-00	MYLAR	0.022uF	5%	100V
C225	1-162-966-11	CERAMIC CHIP	0.0022uF	10%	50V
C226	1-162-966-11	CERAMIC CHIP	0.0022uF	10%	50V
C232	1-126-947-11	ELECT	47uF	20%	16V
C233	1-130-471-00	MYLAR	0.001uF	5%	50V
C234	1-130-471-00	MYLAR	0.001uF	5%	50V
C237	1-126-960-11	ELECT	1uF	20%	50V
C239	1-130-485-00	MYLAR	0.015uF	5%	50V
C240	1-126-964-11	ELECT	10uF	20%	50V
C241	1-130-479-00	MYLAR	0.0047uF	5%	50V
C242	1-130-479-00	MYLAR	0.0047uF	5%	50V
C244	1-126-947-11	ELECT	47uF	20%	16V
C247	1-126-961-11	ELECT	2.2uF	20%	50V
C248	1-126-961-11	ELECT	2.2uF	20%	50V
C249	1-126-961-11	ELECT	2.2uF	20%	50V
C250	1-126-961-11	ELECT	2.2uF	20%	50V
C253	1-126-933-11	ELECT	100uF	20%	16V
C254	1-126-963-11	ELECT	4.7uF	20%	50V
C258	1-126-963-11	ELECT	4.7uF	20%	50V
C259	1-128-551-11	ELECT	22uF	20%	25V
C260	1-126-959-11	ELECT	0.47uF	20%	50V
C261	1-126-959-11	ELECT	0.47uF	20%	50V
C266	1-130-483-00	MYLAR	0.01uF	5%	50V
C267	1-130-483-00	MYLAR	0.01uF	5%	50V
C268	1-126-960-11	ELECT	1uF	20%	50V
C269	1-126-960-11	ELECT	1uF	20%	50V
C272	1-126-960-11	ELECT	1uF	20%	50V
C273	1-126-960-11	ELECT	1uF	20%	50V
C285	1-162-966-11	CERAMIC CHIP	0.0022uF	10%	50V
C286	1-162-966-11	CERAMIC CHIP	0.0022uF	10%	50V
C300	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C301	1-126-964-11	ELECT	10uF	20%	50V
C302	1-126-964-11	ELECT	10uF	20%	50V
C303	1-104-665-11	ELECT	100uF	20%	10V
C304	1-126-963-11	ELECT	4.7uF	20%	50V
C309	1-126-964-11	ELECT	10uF	20%	50V
C310	1-126-964-11	ELECT	10uF	20%	50V
C311	1-126-964-11	ELECT	10uF	20%	50V
C312	1-126-964-11	ELECT	10uF	20%	50V
C313	1-107-714-11	ELECT	10uF	20%	16V

Ref. No.	Part No.	Description			Remark
C314	1-107-714-11	ELECT	10uF	20%	16V
C315	1-126-963-11	ELECT	4.7uF	20%	50V
C316	1-126-963-11	ELECT	4.7uF	20%	50V
C317	1-126-964-11	ELECT	10uF	20%	50V
C318	1-126-964-11	ELECT	10uF	20%	50V
C319	1-165-176-11	CERAMIC CHIP	0.047uF	10%	16V
C320	1-130-487-00	MYLAR	0.022uF	5%	50V
C321	1-130-487-00	MYLAR	0.022uF	5%	50V
C323	1-130-487-00	MYLAR	0.022uF	5%	50V
C324	1-130-487-00	MYLAR	0.022uF	5%	50V
C325	1-130-491-00	MYLAR	0.047uF	5%	50V
C326	1-130-491-00	MYLAR	0.047uF	5%	50V
C327	1-130-476-00	MYLAR	0.0027uF	5%	50V
C328	1-130-476-00	MYLAR	0.0027uF	5%	50V
C329	1-126-963-11	ELECT	4.7uF	20%	50V
C330	1-126-963-11	ELECT	4.7uF	20%	50V
C331	1-130-499-00	MYLAR	0.22uF	5%	50V
C332	1-130-499-00	MYLAR	0.22uF	5%	50V
C333	1-130-499-00	MYLAR	0.22uF	5%	50V
C334	1-130-499-00	MYLAR	0.22uF	5%	50V
C337	1-126-964-11	ELECT	10uF	20%	50V
C339	1-126-934-11	ELECT	220uF	20%	16V
C340	1-126-947-11	ELECT	47uF	20%	16V
C341	1-126-947-11	ELECT	47uF	20%	16V
C342	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C345	1-126-933-11	ELECT	100uF	20%	16V
C351	1-115-416-11	CERAMIC CHIP	0.001uF	5%	25V
C352	1-162-962-11	CERAMIC CHIP	470PF	10%	50V
C353	1-162-962-11	CERAMIC CHIP	470PF	10%	50V
C354	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C355	1-162-962-11	CERAMIC CHIP	470PF	10%	50V
C356	1-162-962-11	CERAMIC CHIP	470PF	10%	50V
C357	1-126-926-11	ELECT	1000uF	20%	10V
C358	1-115-416-11	CERAMIC CHIP	0.001uF	5%	25V (SUFFIX-13)
C361	1-162-960-11	CERAMIC CHIP	220PF	10%	50V
C362	1-162-960-11	CERAMIC CHIP	220PF	10%	50V
C363	1-126-964-11	ELECT	10uF	20%	50V
C364	1-126-964-11	ELECT	10uF	20%	50V
C365	1-162-960-11	CERAMIC CHIP	220PF	10%	50V
C366	1-162-960-11	CERAMIC CHIP	220PF	10%	50V
C367	1-130-499-00	MYLAR	0.22uF	5%	50V
C369	1-126-964-11	ELECT	10uF	20%	50V
C370	1-126-964-11	ELECT	10uF	20%	50V
C371	1-126-947-11	ELECT	47uF	20%	16V
C372	1-126-964-11	ELECT	10uF	20%	50V
C373	1-130-483-00	MYLAR	0.01uF	5%	50V
C374	1-130-483-00	MYLAR	0.01uF	5%	50V
C375	1-126-943-11	ELECT	2200uF	20%	25V
C377	1-126-963-11	ELECT	4.7uF	20%	50V
C379	1-126-947-11	ELECT	47uF	20%	25V
C380	1-126-935-11	ELECT	470uF	20%	16V
C381	1-126-947-11	ELECT	47uF	20%	16V
C382	1-130-477-00	MYLAR	0.0033uF	5%	50V
C383	1-130-477-00	MYLAR	0.0033uF	5%	50V
C384	1-136-159-00	FILM	0.033uF	5%	50V
C385	1-136-159-00	FILM	0.033uF	5%	50V
C386	1-126-947-11	ELECT	47uF	20%	25V
C390	1-162-953-11	CERAMIC CHIP	100PF	5%	50V
C391	1-162-953-11	CERAMIC CHIP	100PF	5%	50V
C392	1-162-953-11	CERAMIC CHIP	100PF	5%	50V
C393	1-126-959-11	ELECT	0.47uF	20%	50V
C396	1-130-499-00	MYLAR	0.22uF	5%	50V
C397	1-104-665-11	ELECT	100uF	20%	10V
C398	1-126-964-11	ELECT	10uF	20%	50V
C399	1-126-935-11	ELECT	470uF	20%	16V
C400	1-128-551-11	ELECT	22uF	20%	25V
C401	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C402	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C411	1-107-713-11	ELECT	4.7uF	20%	35V
C412	1-107-713-11	ELECT	4.7uF	20%	35V
C417	1-126-926-11	ELECT	1000uF	20%	50V
C418	1-130-483-00	MYLAR	0.01uF	5%	50V
C419	1-130-483-00	MYLAR	0.01uF	5%	50V
C420	1-126-943-11	ELECT	2200uF	20%	25V
C421	1-126-934-11	ELECT	220uF	20%	16V
C425	1-164-315-11	CERAMIC CHIP	470PF	5%	50V (SUFFIX-13)
C428	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V (AEP, UK, CIS)
C430	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V (AEP, UK, CIS)
C431	1-162-915-11	CERAMIC CHIP	10PF	0.5PF	50V (AEP, UK)
C432	1-162-915-11	CERAMIC CHIP	10PF	0.5PF	50V (AEP, UK)
C433	1-162-915-11	CERAMIC CHIP	10PF	0.5PF	50V (AEP, UK)
C434	1-162-915-11	CERAMIC CHIP	10PF	0.5PF	50V (AEP, UK)
C435	1-162-915-11	CERAMIC CHIP	10PF	0.5PF	50V (AEP, UK)
C436	1-162-915-11	CERAMIC CHIP	10PF	0.5PF	50V (AEP, UK)
C437	1-164-816-11	CERAMIC CHIP	220PF	2%	50V (AEP, UK)
C438	1-164-816-11	CERAMIC CHIP	220PF	2%	50V (AEP, UK)
C439	1-107-721-11	ELECT	4.7uF	20%	100V
C440	1-107-721-11	ELECT	4.7uF	20%	100V
C442	1-164-156-11	CERAMIC CHIP	0.1uF		25V (AEP, UK, CIS)
C447	1-162-923-11	CERAMIC CHIP	47PF	5%	50V (SUFFIX-13)
C448	1-164-156-11	CERAMIC CHIP	0.1uF		25V (SUFFIX-13)
C450	1-126-964-11	ELECT	10uF	20%	50V
C491	1-164-245-11	CERAMIC CHIP	0.015uF	10%	25V
C492	1-126-960-11	ELECT	1uF	20%	50V

< CONNECTOR >

CN101	1-784-776-11	CONNECTOR, FFC 15P (AEP, UK)	
CN101	1-568-830-11	CONNECTOR, FFC 11P (EXCEPT AEP, UK)	
* CN202	1-564-710-11	PIN, CONNECTOR (SMALL TYPE) 8P	
* CN203	1-564-705-11	PIN, CONNECTOR (SMALL TYPE) 3P	
CN303	1-564-506-11	PLUG, CONNECTOR 3P	
CN304	1-784-792-11	CONNECTOR, FFC 31P	

MAIN

Ref. No.	Part No.	Description	Remark
CN306	1-778-982-21	CONNECTOR, BOARD TO BOARD 13P	
CN307	1-778-982-21	CONNECTOR, BOARD TO BOARD 13P	
CN310	1-564-707-11	PIN, CONNECTOR (SMALL TYPE) 5P	
CN311	1-568-828-11	CONNECTOR, FFC 9P	
CN312	1-784-780-11	CONNECTOR, FFC 19P	
		< DIODE/SHORT >	
D101	8-719-988-61	DIODE 1SS355TE-17 (AEP, UK)	
D102	6-500-522-21	DIODE 10EDB40-TB3	
D205	8-719-988-61	DIODE 1SS355TE-17	
D206	8-719-988-61	DIODE 1SS355TE-17	
D301	6-500-522-21	DIODE 10EDB40-TB3	
D302	6-500-522-21	DIODE 10EDB40-TB3	
D303	6-500-522-21	DIODE 10EDB40-TB3	
D304	6-500-522-21	DIODE 10EDB40-TB3	
D305	8-719-988-61	DIODE 1SS355TE-17	
D306	8-719-988-61	DIODE 1SS355TE-17	
D307	8-719-988-61	DIODE 1SS355TE-17	
D308	1-216-295-00	SHORT CHIP 0	
D311	8-719-988-61	DIODE 1SS355TE-17	
D312	8-719-083-63	DIODE UDZSTE-1713B	
D313	6-500-522-21	DIODE 10EDB40-TB3	
D314	6-500-522-21	DIODE 10EDB40-TB3	
D315	6-500-522-21	DIODE 10EDB40-TB3	
D316	6-500-522-21	DIODE 10EDB40-TB3	
D317	8-719-988-61	DIODE 1SS355TE-17	
D319	6-500-522-21	DIODE 10EDB40-TB3	
D320	6-500-522-21	DIODE 10EDB40-TB3	
D321	6-500-522-21	DIODE 10EDB40-TB3	
D322	6-500-522-21	DIODE 10EDB40-TB3	
D324	8-719-988-61	DIODE 1SS355TE-17 (SUFFIX-13)	
D364	8-719-988-61	DIODE 1SS355TE-17	
D371	8-719-988-61	DIODE 1SS355TE-17	
D372	8-719-988-61	DIODE 1SS355TE-17	
D374	8-719-988-61	DIODE 1SS355TE-17	
		< GROUND TERMINAL >	
* GA1	1-537-738-21	TERMINAL, EARTH	
		< IC >	
IC201	6-702-130-01	IC HA12237F	
IC301	6-703-650-11	IC M61529FP-D60G	
IC303	6-704-074-01	IC NJM2156M (TE2)	
IC304	8-759-710-97	IC NJM4565M-D	
IC305	8-759-701-59	IC NJM78M09FA	
IC306	6-701-760-01	IC uPC3504AHF	
IC308	8-759-701-59	IC NJM78M09FA	
IC309	6-704-046-01	IC BU2099FV	
IC310	6-704-046-01	IC BU2099FV	
IC313	8-759-231-57	IC TA7810S	
		< JACK >	
JK302	1-793-987-11	JACK, PIN 2P (MD (VIDEO) IN)	
		< SHORT >	
JR124	1-216-864-11	SHORT CHIP 0 (AEP, UK, CIS)	
JR300	1-216-864-11	SHORT CHIP 0	
JR302	1-216-864-11	SHORT CHIP 0 (SUFFIX-11)	
JR303	1-216-864-11	SHORT CHIP 0	
JR304	1-216-864-11	SHORT CHIP 0	
JR305	1-216-864-11	SHORT CHIP 0	
JR306	1-216-864-11	SHORT CHIP 0	
JR307	1-216-864-11	SHORT CHIP 0	
JR308	1-216-864-11	SHORT CHIP 0	
JR309	1-216-864-11	SHORT CHIP 0	
JR310	1-216-864-11	SHORT CHIP 0	
JR311	1-216-864-11	SHORT CHIP 0	
JR312	1-216-864-11	SHORT CHIP 0	
JR313	1-216-864-11	SHORT CHIP 0	
JR314	1-216-864-11	SHORT CHIP 0 (E, E51, SP, AUS) (SUFFIX-13)	
JR316	1-216-864-11	SHORT CHIP 0	
JR317	1-216-864-11	SHORT CHIP 0	
JR321	1-216-864-11	SHORT CHIP 0	
JR322	1-216-864-11	SHORT CHIP 0	
JR325	1-216-864-11	SHORT CHIP 0	
JR326	1-216-864-11	SHORT CHIP 0	
JR328	1-216-864-11	SHORT CHIP 0	
JR333	1-216-864-11	SHORT CHIP 0	
JR334	1-216-864-11	SHORT CHIP 0 (E, E51, SP, AUS)	
JR336	1-216-864-11	SHORT CHIP 0	
JR337	1-216-864-11	SHORT CHIP 0	
JR339	1-216-864-11	SHORT CHIP 0	
JR341	1-216-864-11	SHORT CHIP 0	
JR343	1-216-864-11	SHORT CHIP 0 (SUFFIX-13)	
		< TRANSFORMER >	
L201	1-437-220-11	TRANSFORMER, BIAS OSCILLATION	
		< TRANSISTOR >	
Q218	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q219	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q220	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q221	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q222	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q223	8-729-142-46	TRANSISTOR 2SC2001-LK	
Q225	6-550-289-01	TRANSISTOR 2SA1235F	
Q228	8-729-140-04	TRANSISTOR 2SB1116A-L	
Q301	6-550-296-01	TRANSISTOR 2SA1980G	
Q302	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q304	8-729-041-19	TRANSISTOR 2SA953-T-K	
Q310	8-729-052-79	TRANSISTOR 2SD1306NETL	
Q311	8-729-052-79	TRANSISTOR 2SD1306NETL	
Q312	6-550-289-01	TRANSISTOR 2SA1235F	
Q314	8-729-045-62	FET 2SK2158-T2B	
Q315	8-729-045-62	FET 2SK2158-T2B	
Q316	8-729-045-62	FET 2SK2158-T2B	
Q317	8-729-045-62	FET 2SK2158-T2B	
Q318	8-729-045-62	FET 2SK2158-T2B	
Q319	8-729-045-62	FET 2SK2158-T2B	
Q320	8-729-045-62	FET 2SK2158-T2B	
Q323	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q324	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q327	6-550-289-01	TRANSISTOR 2SA1235F	
Q328	8-729-041-19	TRANSISTOR 2SA953-T-K	

Ref. No.	Part No.	Description			Remark
Q330	8-729-120-28	TRANSISTOR	2SC1623-L5L6		
Q331	6-550-289-01	TRANSISTOR	2SA1235F		
Q372	8-729-120-28	TRANSISTOR	2SC1623-L5L6		
Q373	8-729-142-46	TRANSISTOR	2SC2001-LK		
Q491	8-729-120-28	TRANSISTOR	2SC1623-L5L6		
Q492	8-729-045-62	FET	2SK2158-T2B		
		< RESISTOR >			
R101	1-216-833-11	METAL CHIP	10K	5%	1/10W
R102	1-216-833-11	METAL CHIP	10K	5%	1/10W
R215	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R216	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R225	1-216-833-11	METAL CHIP	10K	5%	1/10W
R220	1-216-833-11	METAL CHIP	10K	5%	1/10W
R226	1-216-833-11	METAL CHIP	10K	5%	1/10W
R231	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R232	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R233	1-216-837-11	METAL CHIP	22K	5%	1/10W
R234	1-216-837-11	METAL CHIP	22K	5%	1/10W
R235	1-216-833-11	METAL CHIP	10K	5%	1/10W
R241	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R242	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R245	1-216-833-11	METAL CHIP	10K	5%	1/10W
R246	1-216-841-11	METAL CHIP	47K	5%	1/10W
R251	1-216-793-11	METAL CHIP	4.7	5%	1/10W
R252	1-216-837-11	METAL CHIP	22K	5%	1/10W
R253	1-216-833-11	METAL CHIP	10K	5%	1/10W
R260	1-216-813-11	METAL CHIP	220	5%	1/10W
R265	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R266	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R267	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R268	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R269	1-216-833-11	METAL CHIP	10K	5%	1/10W
R270	1-216-833-11	METAL CHIP	10K	5%	1/10W
R271	1-216-833-11	METAL CHIP	10K	5%	1/10W
R272	1-216-833-11	METAL CHIP	10K	5%	1/10W
R273	1-216-833-11	METAL CHIP	10K	5%	1/10W
R278	1-216-837-11	METAL CHIP	22K	5%	1/10W
R282	1-216-809-11	METAL CHIP	100	5%	1/10W
R283	1-216-833-11	METAL CHIP	10K	5%	1/10W
R284	1-216-833-11	METAL CHIP	10K	5%	1/10W
R285	1-216-833-11	METAL CHIP	10K	5%	1/10W
R286	1-216-833-11	METAL CHIP	10K	5%	1/10W
R287	1-216-833-11	METAL CHIP	10K	5%	1/10W
R288	1-216-833-11	METAL CHIP	10K	5%	1/10W
R299	1-216-833-11	METAL CHIP	10K	5%	1/10W (SUFFIX-13)
R300	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R301	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R302	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R303	1-216-837-11	METAL CHIP	22K	5%	1/10W
R304	1-216-837-11	METAL CHIP	22K	5%	1/10W
R307	1-216-809-11	METAL CHIP	100	5%	1/10W
R309	1-216-864-11	SHORT CHIP	0		
R310	1-216-864-11	SHORT CHIP	0		
R313	1-216-845-11	METAL CHIP	100K	5%	1/10W
R314	1-216-845-11	METAL CHIP	100K	5%	1/10W

Ref. No.	Part No.	Description			Remark
R315	1-216-833-11	METAL CHIP	10K	5%	1/10W
R316	1-216-833-11	METAL CHIP	10K	5%	1/10W
R317	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R318	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R319	1-216-821-11	METAL CHIP	1K	5%	1/10W
R320	1-216-821-11	METAL CHIP	1K	5%	1/10W
R321	1-216-835-11	METAL CHIP	15K	5%	1/10W
R322	1-216-835-11	METAL CHIP	15K	5%	1/10W
R323	1-216-821-11	METAL CHIP	1K	5%	1/10W
R324	1-216-821-11	METAL CHIP	1K	5%	1/10W
R325	1-216-833-11	METAL CHIP	10K	5%	1/10W
R326	1-216-833-11	METAL CHIP	10K	5%	1/10W
R327	1-216-829-11	METAL CHIP	4.7K	5%	1/10W (E, E51, SP, AUS)
R328	1-216-839-11	METAL CHIP	33K	5%	1/10W
R329	1-216-295-00	SHORT CHIP	0 (SUFFIX-13)		
R330	1-216-833-11	METAL CHIP	10K	5%	1/10W
R331	1-216-823-11	METAL CHIP	1.5K	5%	1/10W (AEP, UK, CIS)
R331	1-216-827-11	METAL CHIP	3.3K	5%	1/10W (E, E51, SP, AUS)
R332	1-216-841-11	METAL CHIP	47K	5%	1/10W
R333	1-216-833-11	METAL CHIP	10K	5%	1/10W
R334	1-216-832-11	METAL CHIP	8.2K	5%	1/10W
R335	1-216-842-11	METAL CHIP	56K	5%	1/10W
R336	1-216-836-11	METAL CHIP	18K	5%	1/10W (AEP, UK, CIS)
R336	1-216-838-11	METAL CHIP	27K	5%	1/10W (E, E51, SP, AUS)
R337	1-216-823-11	METAL CHIP	1.5K	5%	1/10W
R338	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R339	1-216-821-11	METAL CHIP	1K	5%	1/10W
R340	1-216-830-11	METAL CHIP	5.6K	5%	1/10W (E, E51, SP, AUS)
R340	1-216-833-11	METAL CHIP	10K	5%	1/10W (AEP, UK, CIS)
R341	1-216-833-11	METAL CHIP	10K	5%	1/10W (SUFFIX-13)
R346	1-216-837-11	METAL CHIP	22K	5%	1/10W
R347	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R348	1-216-864-11	SHORT CHIP	0		
R352	1-218-717-11	METAL CHIP	11K	5%	1/10W
R353	1-218-717-11	METAL CHIP	11K	5%	1/10W
R354	1-216-841-11	METAL CHIP	47K	5%	1/10W
R355	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R356	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R358	1-216-837-11	METAL CHIP	22K	5%	1/10W
R359	1-216-853-11	METAL CHIP	470K	5%	1/10W
R361	1-216-830-11	METAL CHIP	5.6K	5%	1/10W
R362	1-216-837-11	METAL CHIP	22K	5%	1/10W
R363	1-216-837-11	METAL CHIP	22K	5%	1/10W
R364	1-216-845-11	METAL CHIP	100K	5%	1/10W
R365	1-216-857-11	METAL CHIP	1M	5%	1/10W
R366	1-216-814-11	METAL CHIP	270	5%	1/10W
R367	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R368	1-216-809-11	METAL CHIP	100	5%	1/10W
R370	1-216-833-11	METAL CHIP	10K	5%	1/10W
R371	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R372	1-216-829-11	METAL CHIP	4.7K	5%	1/10W

MAIN | MICROPHONE | MOTOR (LD) | MOTOR (TB)

Ref. No.	Part No.	Description			Remark
R375	1-216-829-11	METAL CHIP	4.7K	5%	1/10W (E, E51, SP, AUS)
R375	1-216-833-11	METAL CHIP	10K	5%	1/10W (AEP, UK, CIS)
R378	1-216-833-11	METAL CHIP	10K	5%	1/10W
R379	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R380	1-216-853-11	METAL CHIP	470K	5%	1/10W
R384	1-216-821-11	METAL CHIP	1K	5%	1/10W
R386	1-216-833-11	METAL CHIP	10K	5%	1/10W
R387	1-216-834-11	METAL CHIP	12K	5%	1/10W
R388	1-216-821-11	METAL CHIP	1K	5%	1/10W
R390	1-216-833-11	METAL CHIP	10K	5%	1/10W (SUFFIX-13)
R391	1-216-841-11	METAL CHIP	47K	5%	1/10W
R392	1-216-813-11	METAL CHIP	220	5%	1/10W
R393	1-216-833-11	METAL CHIP	10K	5%	1/10W
R394	1-216-001-00	RES-CHIP	10	5%	1/10W
R395	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R396	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R397	1-216-821-11	METAL CHIP	1K	5%	1/10W
R398	1-216-830-11	METAL CHIP	5.6K	5%	1/10W (E, E51, SP, AUS)
R398	1-216-833-11	METAL CHIP	10K	5%	1/10W (AEP, UK, CIS)
R399	1-216-830-11	METAL CHIP	5.6K	5%	1/10W (E, E51, SP, AUS)
R399	1-216-833-11	METAL CHIP	10K	5%	1/10W (AEP, UK, CIS)
R400	1-216-833-11	METAL CHIP	10K	5%	1/10W
R401	1-216-833-11	METAL CHIP	10K	5%	1/10W
R402	1-216-833-11	METAL CHIP	10K	5%	1/10W
R403	1-216-820-11	METAL CHIP	820	5%	1/10W (E, E51, SP, AUS)
R403	1-216-823-11	METAL CHIP	1.5K	5%	1/10W (AEP, UK, CIS)
R404	1-216-833-11	METAL CHIP	10K	5%	1/10W
R405	1-216-833-11	METAL CHIP	10K	5%	1/10W
R406	1-216-837-11	METAL CHIP	22K	5%	1/10W
R407	1-216-833-11	METAL CHIP	10K	5%	1/10W
R408	1-216-833-11	METAL CHIP	10K	5%	1/10W
R409	1-216-833-11	METAL CHIP	10K	5%	1/10W
R410	1-216-833-11	METAL CHIP	10K	5%	1/10W
R412	1-216-833-11	METAL CHIP	10K	5%	1/10W
R413	1-216-833-11	METAL CHIP	10K	5%	1/10W
R414	1-216-833-11	METAL CHIP	10K	5%	1/10W
R415	1-216-833-11	METAL CHIP	10K	5%	1/10W
R416	1-216-833-11	METAL CHIP	10K	5%	1/10W
R417	1-216-833-11	METAL CHIP	10K	5%	1/10W
R418	1-216-833-11	METAL CHIP	10K	5%	1/10W
R419	1-216-833-11	METAL CHIP	10K	5%	1/10W
R420	1-216-833-11	METAL CHIP	10K	5%	1/10W
R421	1-216-833-11	METAL CHIP	10K	5%	1/10W
R424	1-216-837-11	METAL CHIP	22K	5%	1/10W
R425	1-216-837-11	METAL CHIP	22K	5%	1/10W
R426	1-216-837-11	METAL CHIP	22K	5%	1/10W
R427	1-216-296-11	SHORT CHIP	0		
R428	1-216-296-11	SHORT CHIP	0		
R430	1-216-833-11	METAL CHIP	10K	5%	1/10W
R431	1-216-847-11	METAL CHIP	150K	5%	1/10W
R432	1-216-809-11	METAL CHIP	100	5%	1/10W
⚠R433	1-215-891-11	METAL OXIDE	680	5%	2W F
⚠R434	1-215-891-11	METAL OXIDE	680	5%	2W F
R455	1-218-717-11	METAL CHIP	11K	5%	1/10W
R460	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R461	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R466	1-216-837-11	METAL CHIP	22K	5%	1/10W
R467	1-216-823-11	METAL CHIP	1.5K	5%	1/10W
R468	1-216-844-11	METAL CHIP	82K	5%	1/10W
R470	1-216-827-11	METAL CHIP	3.3K	5%	1/10W
R478	1-216-825-11	METAL CHIP	2.2K	5%	1/10W (E, E51, SP, AUS)
R479	1-216-841-11	METAL CHIP	47K	5%	1/10W
R480	1-216-833-11	METAL CHIP	10K	5%	1/10W
R481	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R482	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R483	1-216-821-11	METAL CHIP	1K	5%	1/10W
R484	1-216-833-11	METAL CHIP	10K	5%	1/10W
R485	1-216-809-11	METAL CHIP	100	5%	1/10W
R486	1-216-809-11	METAL CHIP	100	5%	1/10W
R487	1-216-296-11	SHORT CHIP	0		
R488	1-216-296-11	SHORT CHIP	0		
R491	1-216-849-11	METAL CHIP	220K	5%	1/10W
R492	1-216-849-11	METAL CHIP	220K	5%	1/10W
R493	1-216-845-11	METAL CHIP	100K	5%	1/10W
R494	1-216-849-11	METAL CHIP	220K	5%	1/10W
R495	1-216-837-11	METAL CHIP	22K	5%	1/10W
R498	1-216-833-11	METAL CHIP	10K	5%	1/10W (SUFFIX-13)
R499	1-216-833-11	METAL CHIP	10K	5%	1/10W (SUFFIX-13)

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1-688-547-11 MICROPHONE BOARD (E, E51, SP, AUS)
****

< CONNECTOR >

* CN402 1-695-326-31 PIN, CONNECTOR (PC BOARD) 3P

< JACK >

J401 1-770-226-11 JACK (LARGE TYPE) (MIC)

****

1-687-133-11 MOTOR (LD) BOARD
****

****

1-687-134-11 MOTOR (TB) BOARD
****

< CONNECTOR >

CN742 1-784-727-11 CONNECTOR, FFC 5P

****

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

PANEL

Ref. No.	Part No.	Description			Remark
	A-4734-174-A	PANEL BOARD, COMPLETE (AEP, UK)			
	A-4734-290-A	PANEL BOARD, COMPLETE (E51)			
	A-4734-798-A	PANEL BOARD, COMPLETE (CIS)			
	A-4734-949-A	PANEL BOARD, COMPLETE (E, SP, AUS)			
		**********			
	4-245-133-01	GUIDE, FL			
		< CAPACITOR >			
C201	1-126-960-11	ELECT	1uF	20%	50V
C202	1-162-966-11	CERAMIC CHIP	0.0022uF	10%	50V
C203	1-126-965-11	ELECT	22uF	20%	50V
C204	1-164-345-11	CERAMIC CHIP	0.082uF	10%	25V
C205	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C207	1-163-023-00	CERAMIC CHIP	0.015uF	5%	50V
C208	1-162-967-11	CERAMIC CHIP	0.0033uF	10%	50V
C210	1-162-967-11	CERAMIC CHIP	0.0033uF	10%	50V
C211	1-163-021-11	CERAMIC CHIP	0.01uF	10%	50V
C214	1-162-919-11	CERAMIC CHIP	22PF	5%	50V
C215	1-162-919-11	CERAMIC CHIP	22PF	5%	50V
C216	1-162-919-11	CERAMIC CHIP	22PF	5%	50V
C217	1-162-919-11	CERAMIC CHIP	22PF	5%	50V
C218	1-162-919-11	CERAMIC CHIP	22PF	5%	50V
C219	1-162-919-11	CERAMIC CHIP	22PF	5%	50V
C221	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C401	1-164-156-11	CERAMIC CHIP	0.1uF		25V
					(E, E51, SP, AUS)
C402	1-164-156-11	CERAMIC CHIP	0.1uF		25V
					(E, E51, SP, AUS)
C403	1-162-968-11	CERAMIC CHIP	0.0047uF	10%	50V
					(E, E51, SP, AUS)
C404	1-126-961-11	ELECT	2.2uF	20%	50V
					(E, E51, SP, AUS)
C405	1-126-964-11	ELECT	10uF	20%	50V
					(E, E51, SP, AUS)
C406	1-126-934-11	ELECT	220uF	20%	10V
					(E, E51, SP, AUS)
C407	1-162-926-11	CERAMIC CHIP	82PF	5%	50V
					(E, E51, SP, AUS)
C408	1-126-956-11	ELECT	0.1uF	20%	50V
					(E, E51, SP, AUS)
C409	1-126-964-11	ELECT	10uF	20%	50V
					(E, E51, SP, AUS)
C410	1-126-965-11	ELECT	22uF	20%	50V
					(E, E51, SP, AUS)
C411	1-164-739-11	CERAMIC CHIP	560PF	5%	50V
					(E, E51, SP, AUS)
C412	1-126-960-11	ELECT	1uF	20%	50V
					(E, E51, SP, AUS)
C413	1-126-960-11	ELECT	1uF	20%	50V
					(E, E51, SP, AUS)
C414	1-164-156-11	CERAMIC CHIP	0.1uF		25V
					(E, E51, SP, AUS)
C415	1-164-156-11	CERAMIC CHIP	0.1uF		25V
					(E, E51, SP, AUS)
C434	1-126-957-11	ELECT	0.22uF	20%	50V
					(E, E51, SP, AUS)
C441	1-164-156-11	CERAMIC CHIP	0.1uF		25V
					(E, E51, SP, AUS)
C501	1-107-682-11	CERAMIC CHIP	1uF	10%	16V
C502	1-107-682-11	CERAMIC CHIP	1uF	10%	16V
C504	1-126-964-11	ELECT	10uF	20%	50V
C505	1-126-916-11	ELECT	1000uF	20%	6.3V
C506	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C507	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C508	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C509	1-124-248-00	ELECT	22uF	20%	35V
C510	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C511	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C513	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C801	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C802	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C803	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C804	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C805	1-128-821-11	CERAMIC	1000PF	5%	50V
C806	1-128-821-11	CERAMIC	1000PF	5%	50V
C807	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C808	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C809	1-124-589-11	ELECT	47uF	20%	16V
C902	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C903	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C904	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C905	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C906	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C907	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C908	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C909	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C910	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C911	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C914	1-119-772-11	ELECT	47uF	20%	35V
C915	1-127-880-11	CERAMIC	0.022uF	10%	50V
C916	1-126-963-11	ELECT	4.7uF	20%	50V
C917	1-126-963-11	ELECT	4.7uF	20%	50V
C918	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C919	1-162-918-11	CERAMIC CHIP	18PF	5%	50V
C920	1-162-919-11	CERAMIC CHIP	22PF	5%	50V
C921	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C922	1-162-919-11	CERAMIC CHIP	22PF	5%	50V
C923	1-162-919-11	CERAMIC CHIP	22PF	5%	50V
C926	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C927	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C931	1-164-245-11	CERAMIC CHIP	0.015uF	10%	25V
C932	1-164-245-11	CERAMIC CHIP	0.015uF	10%	25V
C933	1-164-245-11	CERAMIC CHIP	0.015uF	10%	25V
		< CONNECTOR >			
CN101	1-784-792-11	CONNECTOR, FFC 31P			
CN301	1-568-826-11	CONNECTOR, FFC 7P			
* CN401	1-695-326-31	PIN, CONNECTOR (PC BOARD) 3P			
					(E, E51, SP, AUS)
CN601	1-784-774-11	CONNECTOR, FFC 13P			
CN701	1-568-828-11	CONNECTOR, FFC 9P			
		< DIODE >			
D101	8-719-991-33	DIODE 1SS133T-77			
D201	8-719-991-33	DIODE 1SS133T-77			
D401	8-719-991-33	DIODE 1SS133T-77 (E, E51, SP, AUS)			
D402	8-719-991-33	DIODE 1SS133T-77 (E, E51, SP, AUS)			
D501	8-719-991-33	DIODE 1SS133T-77			

PANEL

Ref. No.	Part No.	Description	Remark
D502	8-719-991-33	DIODE 1SS133T-77	
D503	8-719-991-33	DIODE 1SS133T-77	
D504	8-719-991-33	DIODE 1SS133T-77	
D505	8-719-991-33	DIODE 1SS133T-77	
D506	8-719-991-33	DIODE 1SS133T-77	
D510	8-719-991-33	DIODE 1SS133T-77	
D511	8-719-991-33	DIODE 1SS133T-77	
D601	8-719-991-33	DIODE 1SS133T-77	
D602	8-719-991-33	DIODE 1SS133T-77	
D603	8-719-820-05	DIODE 1SS181	
D604	8-719-820-05	DIODE 1SS181	
D605	8-719-820-05	DIODE 1SS181	
D606	8-719-820-05	DIODE 1SS181	
D607	8-719-820-05	DIODE 1SS181	
D608	8-719-820-05	DIODE 1SS181	
D609	8-719-820-05	DIODE 1SS181	
D610	8-719-820-05	DIODE 1SS181	
D611	8-719-991-33	DIODE 1SS133T-77 (CIS, E, SP, AUS)	
D613	8-719-991-33	DIODE 1SS133T-77 (CIS, E51)	
D614	8-719-991-33	DIODE 1SS133T-77 (AEP, UK, CIS)	
D615	8-719-991-33	DIODE 1SS133T-77 (AEP, UK)	
		< FERRITE BEAD >	
FB401	1-410-396-41	FERRITE 0.45uH(E, E51, SP, AUS)	
		< FLUORESCENT INDICATOR TUBE >	
FL901	1-518-896-11	INDICATOR TUBE, FLUORESCENT	
		< IC >	
IC201	6-704-046-01	IC BU2099FV	
IC202	6-704-046-01	IC BU2099FV	
IC401	8-759-710-97	IC NJM4565M (TE2) (E, E51, SP, AUS)	
IC501	6-704-135-01	IC MM1614A	
IC502	8-759-533-04	IC M62703ML-E1	
IC802	6-600-217-01	IC RPM7238-H4	
IC901	6-803-011-01	IC LC876796B-51F6	
		< SHORT >	
JR101	1-216-296-11	SHORT CHIP 0	
JR107	1-216-296-11	SHORT CHIP 0	
JR108	1-216-296-11	SHORT CHIP 0	
JR202	1-216-864-11	SHORT CHIP 0	
JR203	1-216-864-11	SHORT CHIP 0	
JR204	1-216-864-11	SHORT CHIP 0	
JR205	1-216-296-11	SHORT CHIP 0	
JR206	1-216-296-11	SHORT CHIP 0	
JR208	1-216-296-11	SHORT CHIP 0	
JR209	1-216-296-11	SHORT CHIP 0	
JR210	1-216-296-11	SHORT CHIP 0	
JR211	1-216-296-11	SHORT CHIP 0	
JR213	1-216-296-11	SHORT CHIP 0	
JR215	1-216-296-11	SHORT CHIP 0	
JR217	1-216-296-11	SHORT CHIP 0	
JR218	1-216-296-11	SHORT CHIP 0	
JR219	1-216-296-11	SHORT CHIP 0	
JR220	1-216-296-11	SHORT CHIP 0	
JR221	1-216-864-11	SHORT CHIP 0	
JR401	1-216-864-11	SHORT CHIP 0	
JR403	1-216-296-11	SHORT CHIP 0 (E, E51, SP, AUS)	
JR601	1-216-864-11	SHORT CHIP 0	
JR602	1-216-864-11	SHORT CHIP 0	
JR603	1-216-864-11	SHORT CHIP 0	
JR604	1-216-864-11	SHORT CHIP 0	
JR605	1-216-864-11	SHORT CHIP 0	
JR606	1-216-864-11	SHORT CHIP 0	
JR607	1-216-864-11	SHORT CHIP 0	
JR608	1-216-296-11	SHORT CHIP 0	
JR609	1-216-864-11	SHORT CHIP 0	
JR802	1-216-864-11	SHORT CHIP 0	
JR810	1-216-864-11	SHORT CHIP 0	
JR901	1-216-864-11	SHORT CHIP 0	
JR902	1-216-864-11	SHORT CHIP 0	
JR903	1-216-864-11	SHORT CHIP 0	
JR904	1-216-296-11	SHORT CHIP 0	
JR905	1-216-864-11	SHORT CHIP 0	
JR906	1-216-864-11	SHORT CHIP 0	
JR907	1-216-296-11	SHORT CHIP 0	
JR908	1-216-864-11	SHORT CHIP 0	
JR910	1-216-864-11	SHORT CHIP 0	
JR912	1-216-864-11	SHORT CHIP 0	
JR913	1-216-296-11	SHORT CHIP 0	
		< LED >	
LED201	8-719-063-93	LED SLR325VC-N-T32 (CD)	
LED202	8-719-063-93	LED SLR325VC-N-T32 (TUNER BAND)	
LED203	8-719-063-93	LED SLR325VC-N-T32 (MD (VIDEO))	
LED204	8-719-063-93	LED SLR325VC-N-T32 (TAPE A/B)	
LED205	8-719-063-93	LED SLR325VC-N-T32 (HAVEY)	
LED206	8-719-063-93	LED SLR325VC-N-T32 (VOCAL)	
LED207	8-719-063-93	LED SLR325VC-N-T32 (SALSA)	
LED208	8-719-063-93	LED SLR325VC-N-T32 (TECHNO)	
LED209	8-719-063-93	LED SLR325VC-N-T32 (HIP POP)	
LED210	8-719-063-93	LED SLR325VC-N-T32 (MANUAL)	
LED213	8-719-063-93	LED SLR325VC-N-T32 (i-BASS)	
LED901	6-500-641-01	LED SLI-325URC (POWER ⏻ STANDBY/ON)	
		< TRANSISTOR >	
Q201	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q202	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q204	8-729-027-46	TRANSISTOR DTC114YKA-T146	
Q205	8-729-027-46	TRANSISTOR DTC114YKA-T146	
Q206	8-729-027-46	TRANSISTOR DTC114YKA-T146	
Q401	8-729-045-62	FET 2SK2158-T2B (E, E51, SP, AUS)	
Q504	8-752-027-31	TRANSISTOR DTA124EKA-T146	
Q505	8-752-027-59	TRANSISTOR DTC144EKA-T146	
Q601	8-729-116-57	TRANSISTOR 2SB1068-K	
Q602	8-729-140-04	TRANSISTOR 2SB1116A-L	
Q603	8-729-140-04	TRANSISTOR 2SB1116A-L	
Q901	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q921	8-729-027-23	TRANSISTOR DTA114EKA-T146	
		< RESISTOR >	
R102	1-247-807-31	CARBON 100 5% 1/4W	

PANEL

Ref. No.	Part No.	Description			Remark
R104	1-216-821-11	METAL CHIP	1K	5%	1/10W
R105	1-249-417-11	CARBON	1K	5%	1/4W
R106	1-249-417-11	CARBON	1K	5%	1/4W
R107	1-249-417-11	CARBON	1K	5%	1/4W
R108	1-216-821-11	METAL CHIP	1K	5%	1/10W
R109	1-216-821-11	METAL CHIP	1K	5%	1/10W
R110	1-216-821-11	METAL CHIP	1K	5%	1/10W
R111	1-249-417-11	CARBON	1K	5%	1/4W
R112	1-249-417-11	CARBON	1K	5%	1/4W
R113	1-249-417-11	CARBON	1K	5%	1/4W
R114	1-249-417-11	CARBON	1K	5%	1/4W (AEP, UK)
R115	1-249-417-11	CARBON	1K	5%	1/4W (AEP, UK)
R116	1-249-393-11	CARBON	10	5%	1/4W
R119	1-216-864-11	SHORT CHIP	0		
R120	1-216-845-11	METAL CHIP	100K	5%	1/10W
R121	1-216-849-11	METAL CHIP	220K	5%	1/10W
R122	1-216-837-11	METAL CHIP	22K	5%	1/10W
R125	1-249-433-11	CARBON	22K	5%	1/4W
R126	1-249-433-11	CARBON	22K	5%	1/4W
R201	1-216-823-11	METAL CHIP	1.5K	5%	1/10W
R202	1-216-809-11	METAL CHIP	100	5%	1/10W
R203	1-216-849-11	METAL CHIP	220K	5%	1/10W
R204	1-216-840-11	METAL CHIP	39K	5%	1/10W
R205	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R206	1-216-864-11	SHORT CHIP	0		
R208	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R210	1-216-809-11	METAL CHIP	100	5%	1/10W
R211	1-216-833-11	METAL CHIP	10K	5%	1/10W
R212	1-216-851-11	METAL CHIP	330K	5%	1/10W
R213	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R214	1-216-849-11	METAL CHIP	220K	5%	1/10W
R215	1-216-809-11	METAL CHIP	100	5%	1/10W
R216	1-216-851-11	METAL CHIP	330K	5%	1/10W
R217	1-216-849-11	METAL CHIP	220K	5%	1/10W
R218	1-216-809-11	METAL CHIP	100	5%	1/10W
R219	1-216-833-11	METAL CHIP	10K	5%	1/10W
R220	1-216-849-11	METAL CHIP	220K	5%	1/10W
R221	1-216-841-11	METAL CHIP	47K	5%	1/10W
R222	1-216-849-11	METAL CHIP	220K	5%	1/10W
R223	1-216-809-11	METAL CHIP	100	5%	1/10W
R226	1-249-429-11	CARBON	10K	5%	1/4W
R227	1-216-222-00	RES-CHIP	10K	5%	1/8W
R228	1-249-429-11	CARBON	10K	5%	1/4W
R231	1-249-417-11	CARBON	1K	5%	1/4W
R232	1-249-417-11	CARBON	1K	5%	1/4W
R233	1-216-198-00	RES-CHIP	1K	5%	1/8W
R234	1-249-417-11	CARBON	1K	5%	1/4W
R235	1-249-417-11	CARBON	1K	5%	1/4W
R236	1-216-196-00	RES-CHIP	820	5%	1/8W
R237	1-216-196-00	RES-CHIP	820	5%	1/8W
R238	1-249-417-11	CARBON	1K	5%	1/4W
R239	1-216-196-00	RES-CHIP	820	5%	1/8W
R240	1-249-416-11	CARBON	820	5%	1/4W
R243	1-216-198-00	RES-CHIP	1K	5%	1/8W
R245	1-249-429-11	CARBON	10K	5%	1/4W
R246	1-216-222-00	RES-CHIP	10K	5%	1/8W
R247	1-249-429-11	CARBON	10K	5%	1/4W
R248	1-249-433-11	CARBON	22K	5%	1/4W
R249	1-249-433-11	CARBON	22K	5%	1/4W
R250	1-249-433-11	CARBON	22K	5%	1/4W
R252	1-247-807-31	CARBON	100	5%	1/4W
R301	1-249-413-11	CARBON	470	5%	1/4W
R302	1-249-415-11	CARBON	680	5%	1/4W
R303	1-249-417-11	CARBON	1K	5%	1/4W
R304	1-216-823-11	METAL CHIP	1.5K	5%	1/10W
R305	1-216-823-11	METAL CHIP	1.5K	5%	1/10W
R306	1-249-421-11	CARBON	2.2K	5%	1/4W
R307	1-247-843-11	CARBON	3.3K	5%	1/4W
R308	1-249-425-11	CARBON	4.7K	5%	1/4W
R309	1-249-427-11	CARBON	6.8K	5%	1/4W
R311	1-249-413-11	CARBON	470	5%	1/4W
R312	1-249-415-11	CARBON	680	5%	1/4W
R313	1-249-417-11	CARBON	1K	5%	1/4W
R314	1-216-823-11	METAL CHIP	1.5K	5%	1/10W
R315	1-216-202-00	RES-CHIP	1.5K	5%	1/8W
R316	1-249-421-11	CARBON	2.2K	5%	1/4W
R317	1-247-843-11	CARBON	3.3K	5%	1/4W
R318	1-249-425-11	CARBON	4.7K	5%	1/4W
R319	1-249-427-11	CARBON	6.8K	5%	1/4W
R320	1-249-429-11	CARBON	10K	5%	1/4W
R321	1-249-413-11	CARBON	470	5%	1/4W
R322	1-249-415-11	CARBON	680	5%	1/4W
R323	1-216-821-11	METAL CHIP	1K	5%	1/10W
R324	1-249-419-11	CARBON	1.5K	5%	1/4W
R325	1-249-419-11	CARBON	1.5K	5%	1/4W
R326	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R351	1-249-431-11	CARBON	15K	5%	1/4W
R352	1-249-431-11	CARBON	15K	5%	1/4W
R353	1-249-431-11	CARBON	15K	5%	1/4W
R401	1-216-845-11	METAL CHIP	100K	5%	1/10W (E, E51, SP, AUS)
R402	1-216-829-11	METAL CHIP	4.7K	5%	1/10W (E, E51, SP, AUS)
R403	1-216-849-11	METAL CHIP	220K	5%	1/10W (E, E51, SP, AUS)
R404	1-216-809-11	METAL CHIP	100	5%	1/10W (E, E51, SP, AUS)
R405	1-216-825-11	METAL CHIP	2.2K	5%	1/10W (E, E51, SP, AUS)
R406	1-216-850-11	METAL CHIP	270K	5%	1/10W (E, E51, SP, AUS)
R407	1-216-821-11	METAL CHIP	1K	5%	1/10W (E, E51, SP, AUS)
R408	1-247-807-31	CARBON	100	5%	1/4W (E, E51, SP, AUS)
R409	1-249-413-11	CARBON	470	5%	1/4W (E, E51, SP, AUS)
R410	1-216-833-11	METAL CHIP	10K	5%	1/10W (E, E51, SP, AUS)
R411	1-216-834-11	METAL CHIP	12K	5%	1/10W (E, E51, SP, AUS)
R412	1-216-829-11	METAL CHIP	4.7K	5%	1/10W (E, E51, SP, AUS)
R413	1-216-840-11	METAL CHIP	39K	5%	1/10W (E, E51, SP, AUS)

PANEL

Ref. No.	Part No.	Description			Remark
R414	1-216-797-11	METAL CHIP	10	5%	1/10W (E, E51, SP, AUS)
R415	1-247-807-31	CARBON	100	5%	1/4W (E, E51, SP, AUS)
R416	1-247-889-00	CARBON	270K	5%	1/4W (E, E51, SP, AUS)
R417	1-249-431-11	CARBON	15K	5%	1/4W (E, E51, SP, AUS)
R418	1-216-853-11	METAL CHIP	470K	5%	1/10W (E, E51, SP, AUS)
R419	1-216-821-11	METAL CHIP	1K	5%	1/10W (E, E51, SP, AUS)
R432	1-216-841-11	METAL CHIP	47K	5%	1/10W (E, E51, SP, AUS)
R501	1-216-190-00	RES-CHIP	470	5%	1/8W
R502	1-216-841-11	METAL CHIP	47K	5%	1/10W
R503	1-216-841-11	METAL CHIP	47K	5%	1/10W
R504	1-216-833-11	METAL CHIP	10K	5%	1/10W
R505	1-249-425-11	CARBON	4.7K	5%	1/4W
R506	1-216-190-00	RES-CHIP	470	5%	1/8W
R507	1-249-429-11	CARBON	10K	5%	1/4W
R601	1-216-841-11	METAL CHIP	47K	5%	1/10W
R602	1-216-841-11	METAL CHIP	47K	5%	1/10W
R603	1-216-841-11	METAL CHIP	47K	5%	1/10W
R604	1-216-841-11	METAL CHIP	47K	5%	1/10W
R605	1-216-841-11	METAL CHIP	47K	5%	1/10W
R606	1-216-841-11	METAL CHIP	47K	5%	1/10W
R607	1-216-821-11	METAL CHIP	1K	5%	1/10W
R608	1-216-821-11	METAL CHIP	1K	5%	1/10W
R609	1-216-821-11	METAL CHIP	1K	5%	1/10W
R610	1-216-821-11	METAL CHIP	1K	5%	1/10W
R611	1-216-821-11	METAL CHIP	1K	5%	1/10W
R612	1-216-821-11	METAL CHIP	1K	5%	1/10W
R613	1-249-421-11	CARBON	2.2K	5%	1/4W
R614	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R615	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R616	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R617	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R618	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R619	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R620	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R621	1-216-841-11	METAL CHIP	47K	5%	1/10W
R622	1-216-841-11	METAL CHIP	47K	5%	1/10W
R701	1-216-809-11	METAL CHIP	100	5%	1/10W
R702	1-216-809-11	METAL CHIP	100	5%	1/10W
R703	1-216-809-11	METAL CHIP	100	5%	1/10W
R704	1-216-809-11	METAL CHIP	100	5%	1/10W
R705	1-216-809-11	METAL CHIP	100	5%	1/10W
R706	1-216-174-00	RES-CHIP	100	5%	1/8W
R707	1-216-809-11	METAL CHIP	100	5%	1/10W
R708	1-216-809-11	METAL CHIP	100	5%	1/10W
R709	1-216-809-11	METAL CHIP	100	5%	1/10W
R801	1-216-833-11	METAL CHIP	10K	5%	1/10W
R802	1-216-833-11	METAL CHIP	10K	5%	1/10W
R803	1-216-797-11	METAL CHIP	10	5%	1/10W
R804	1-216-797-11	METAL CHIP	10	5%	1/10W
R805	1-249-429-11	CARBON	10K	5%	1/4W
R806	1-249-429-11	CARBON	10K	5%	1/4W
R807	1-216-797-11	METAL CHIP	10	5%	1/10W
R808	1-216-797-11	METAL CHIP	10	5%	1/10W
R809	1-249-429-11	CARBON	10K	5%	1/4W
R810	1-249-429-11	CARBON	10K	5%	1/4W
R811	1-249-393-11	CARBON	10	5%	1/4W
R812	1-249-393-11	CARBON	10	5%	1/4W
R813	1-216-833-11	METAL CHIP	10K	5%	1/10W
R814	1-216-833-11	METAL CHIP	10K	5%	1/10W
R815	1-216-797-11	METAL CHIP	10	5%	1/10W
R816	1-216-797-11	METAL CHIP	10	5%	1/10W
R817	1-249-401-11	CARBON	47	5%	1/4W
R818	1-216-842-11	METAL CHIP	56K	5%	1/10W
R902	1-216-845-11	METAL CHIP	100K	5%	1/10W
R903	1-216-845-11	METAL CHIP	100K	5%	1/10W
R904	1-216-845-11	METAL CHIP	100K	5%	1/10W
R905	1-216-845-11	METAL CHIP	100K	5%	1/10W
R906	1-216-845-11	METAL CHIP	100K	5%	1/10W
R907	1-216-845-11	METAL CHIP	100K	5%	1/10W
R908	1-216-845-11	METAL CHIP	100K	5%	1/10W
R909	1-216-845-11	METAL CHIP	100K	5%	1/10W
R910	1-216-845-11	METAL CHIP	100K	5%	1/10W
R911	1-216-845-11	METAL CHIP	100K	5%	1/10W
R912	1-216-845-11	METAL CHIP	100K	5%	1/10W
R913	1-216-845-11	METAL CHIP	100K	5%	1/10W
R914	1-216-845-11	METAL CHIP	100K	5%	1/10W
R915	1-216-845-11	METAL CHIP	100K	5%	1/10W
R916	1-216-845-11	METAL CHIP	100K	5%	1/10W
R917	1-216-845-11	METAL CHIP	100K	5%	1/10W
R918	1-216-845-11	METAL CHIP	100K	5%	1/10W
R919	1-216-845-11	METAL CHIP	100K	5%	1/10W
R920	1-216-845-11	METAL CHIP	100K	5%	1/10W
R921	1-216-845-11	METAL CHIP	100K	5%	1/10W
R922	1-216-845-11	METAL CHIP	100K	5%	1/10W
R923	1-216-845-11	METAL CHIP	100K	5%	1/10W
R924	1-216-845-11	METAL CHIP	100K	5%	1/10W
R925	1-216-845-11	METAL CHIP	100K	5%	1/10W
R926	1-216-845-11	METAL CHIP	100K	5%	1/10W
R927	1-216-845-11	METAL CHIP	100K	5%	1/10W
R928	1-216-845-11	METAL CHIP	100K	5%	1/10W
R929	1-216-845-11	METAL CHIP	100K	5%	1/10W
R930	1-216-845-11	METAL CHIP	100K	5%	1/10W
R931	1-216-845-11	METAL CHIP	100K	5%	1/10W
R932	1-216-845-11	METAL CHIP	100K	5%	1/10W
R933	1-216-845-11	METAL CHIP	100K	5%	1/10W
R934	1-216-845-11	METAL CHIP	100K	5%	1/10W
R935	1-216-845-11	METAL CHIP	100K	5%	1/10W
R936	1-216-845-11	METAL CHIP	100K	5%	1/10W
R937	1-216-845-11	METAL CHIP	100K	5%	1/10W
R938	1-216-845-11	METAL CHIP	100K	5%	1/10W
R939	1-216-845-11	METAL CHIP	100K	5%	1/10W
R940	1-216-845-11	METAL CHIP	100K	5%	1/10W
R942	1-249-414-11	CARBON	560	5%	1/4W
R943	1-216-818-11	METAL CHIP	560	5%	1/10W
R944	1-249-433-11	CARBON	22K	5%	1/4W
R945	1-249-433-11	CARBON	22K	5%	1/4W
R946	1-249-441-11	CARBON	100K	5%	1/4W
R947	1-249-441-11	CARBON	100K	5%	1/4W
R948	1-216-845-11	METAL CHIP	100K	5%	1/10W

Ref. No.	Part No.	Description			Remark
R949	1-216-845-11	METAL CHIP	100K	5%	1/10W
R950	1-249-441-11	CARBON	100K	5%	1/4W
R951	1-249-441-11	CARBON	100K	5%	1/4W
R952	1-216-845-11	METAL CHIP	100K	5%	1/10W
R953	1-216-845-11	METAL CHIP	100K	5%	1/10W
R954	1-249-419-11	CARBON	1.5K	5%	1/4W
R955	1-249-441-11	CARBON	100K	5%	1/4W
R957	1-249-441-11	CARBON	100K	5%	1/4W
R958	1-218-463-11	RES-CHIP	8.2M	5%	1/10W
R959	1-216-853-11	METAL CHIP	470K	5%	1/10W
R960	1-216-809-11	METAL CHIP	100	5%	1/10W
R961	1-216-821-11	METAL CHIP	1K	5%	1/10W
R962	1-216-821-11	METAL CHIP	1K	5%	1/10W
R963	1-216-821-11	METAL CHIP	1K	5%	1/10W
R964	1-216-833-11	METAL CHIP	10K	5%	1/10W
R972	1-216-864-11	SHORT CHIP	0		
R973	1-216-864-11	SHORT CHIP	0		
R974	1-216-864-11	SHORT CHIP	0		
R975	1-216-864-11	SHORT CHIP	0		
R976	1-216-864-11	SHORT CHIP	0		
R977	1-216-864-11	SHORT CHIP	0		
R978	1-216-864-11	SHORT CHIP	0		
R979	1-216-864-11	SHORT CHIP	0		
R980	1-216-864-11	SHORT CHIP	0		
R981	1-216-864-11	SHORT CHIP	0		
R986	1-216-864-11	SHORT CHIP	0		
		< SWITCH/ROTARY ENCODER >			
S301	1-762-875-21	SWITCH, KEYBOARD (i-BASS)			
S302	1-762-875-21	SWITCH, KEYBOARD (SURROUND)			
S303	1-762-875-21	SWITCH, KEYBOARD (I◀◀ TUNING DOWN ◀◀)			
S304	1-762-875-21	SWITCH, KEYBOARD (❚❚)			
S305	1-762-875-21	SWITCH, KEYBOARD (◀▶ DIRECTION)			
S306	1-762-875-21	SWITCH, KEYBOARD (■)			
S307	1-762-875-21	SWITCH, KEYBOARD (TUNING UP ▶▶I ▶▶)			
S308	1-762-875-21	SWITCH, KEYBOARD (ALBUM ▼, PTY) (AEP, UK)			
S308	1-762-875-21	SWITCH, KEYBOARD (ALBUM ▼) (EXCEPT AEP, UK)			
S309	1-762-875-21	SWITCH, KEYBOARD (ALBUM ▲)			
S311	1-762-875-21	SWITCH, KEYBOARD (HEAVY)			
S312	1-762-875-21	SWITCH, KEYBOARD (VOCAL)			
S313	1-762-875-21	SWITCH, KEYBOARD (SALASA)			
S314	1-762-875-21	SWITCH, KEYBOARD (REC PAUSE/START)			
S315	1-762-875-21	SWITCH, KEYBOARD (CD SYNC)			
S316	1-762-875-21	SWITCH, KEYBOARD (MANUAL)			
S317	1-762-875-21	SWITCH, KEYBOARD (HIP POP)			
S318	1-762-875-21	SWITCH, KEYBOARD (TECHNO)			
S319	1-762-875-21	SWITCH, KEYBOARD (MODE)			
S320	1-762-875-21	SWITCH, KEYBOARD (ENTER)			
S321	1-762-875-21	SWITCH, KEYBOARD (POWER ⏻ STANDBY/ON)			
S322	1-762-875-21	SWITCH, KEYBOARD (DISPLAY)			
S323	1-762-875-21	SWITCH, KEYBOARD (TAPE A/B)			
S324	1-762-875-21	SWITCH, KEYBOARD (TUNER BAND)			
S325	1-762-875-21	SWITCH, KEYBOARD (MD (VIDEO))			
S326	1-762-875-21	SWITCH, KEYBOARD (CD)			

Ref. No.	Part No.	Description			Remark
S801	1-786-396-11	SW, RTRY EC12E24604-30MM (VOLUME)			
S802	1-786-396-11	SW, RTRY EC12E24604-30MM (BASS)			
S803	1-786-418-11	SW, RTRY RE0123PVB30F (MULTI JOG)			
S804	1-477-824-11	ENCODER, ROTARY (TREBLE, MIDDLE)			
		< VARIABLE RESISTOR >			
VR401	1-227-502-11	RES, VAR, CARBON 10K (MIC MIXING) (E, E51, SP, AUS)			
		< VIBRATOR >			
X901	1-760-252-12	VIBRATOR, CRYSTAL (32.768kHz)			
X902	1-795-880-11	VIBRATOR, CERAMIC (8.64MHz)			
**********					
	A-4734-177-A	POWER BOARD, COMPLETE (AEP, UK, CIS)			
	A-4734-293-A	POWER BOARD, COMPLETE (E51)			
	A-4734-952-A	POWER BOARD, COMPLETE (E, SP)			
	A-4734-959-A	POWER BOARD, COMPLETE (AUS)			
		**********			
		< CAPACITOR >			
C5	1-165-621-11	CERAMIC CHIP	0.1uF		50V
C6	1-165-621-11	CERAMIC CHIP	0.1uF		50V
C7	1-165-621-11	CERAMIC CHIP	0.1uF		50V
C8	1-165-621-11	CERAMIC CHIP	0.1uF		50V
C11	1-126-955-11	ELECT	4700uF	20%	35V
C12	1-126-955-11	ELECT	4700uF	20%	35V
C14	1-127-814-11	ELECT	3300uF	20%	80V (E51)
C14	1-135-929-21	ELECT	3300uF	20%	80V (EXCEPT E51)
C15	1-127-814-11	ELECT	3300uF	20%	80V (E51)
C15	1-135-929-21	ELECT	3300uF	20%	80V (EXCEPT E51)
C18	1-130-777-00	MYLAR	0.1uF	10%	100V
C19	1-130-777-00	MYLAR	0.1uF	10%	100V
C22	1-126-960-11	ELECT	1uF	20%	50V
C23	1-126-957-11	ELECT	0.22uF	20%	50V
C24	1-126-947-11	ELECT	47uF	20%	25V
C25	1-162-966-11	CERAMIC CHIP	0.0022uF	10%	50V
C26	1-162-968-11	CERAMIC CHIP	0.0047uF	10%	50V
C30	1-162-961-11	CERAMIC CHIP	330PF	10%	50V
C31	1-162-961-11	CERAMIC CHIP	330PF	10%	50V
C33	1-126-967-11	ELECT	47uF	20%	50V
C34	1-128-552-51	ELECT	47uF	20%	63V
C35	1-164-344-11	CERAMIC CHIP	0.068uF	10%	25V
C37	1-128-552-51	ELECT	47uF	20%	63V
C38	1-162-959-11	CERAMIC CHIP	330PF	5%	50V
C40	1-162-961-11	CERAMIC CHIP	330PF	10%	50V
C41	1-126-967-11	ELECT	47uF	20%	50V
C42	1-162-945-11	CERAMIC CHIP	22PF	5%	50V
C43	1-162-959-11	CERAMIC CHIP	330PF	5%	50V
C45	1-162-961-11	CERAMIC CHIP	330PF	10%	50V
C501	1-162-974-11	CERAMIC CHIP	0.01uF		50V
C502	1-162-974-11	CERAMIC CHIP	0.01uF		50V
C503	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C504	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C505	1-100-152-11	CERAMIC CHIP	100PF	5%	100V
C506	1-100-152-11	CERAMIC CHIP	100PF	5%	100V

POWER

Ref. No.	Part No.	Description			Remark
C507	1-100-152-11	CERAMIC CHIP	100PF	5%	100V
C508	1-100-152-11	CERAMIC CHIP	100PF	5%	100V
C509	1-164-733-11	CERAMIC CHIP	820PF	10%	50V
C510	1-164-733-11	CERAMIC CHIP	820PF	10%	50V
C511	1-126-966-11	ELECT	33uF	20%	35V
C512	1-126-966-11	ELECT	33uF	20%	35V
C513	1-126-965-11	ELECT	22uF	20%	50V
C514	1-126-965-11	ELECT	22uF	20%	50V
C517	1-126-957-11	ELECT	0.22uF	20%	50V (AEP, UK, CIS)
C517	1-126-959-11	ELECT	0.47uF	20%	50V (E, E51, SP, AUS)
C518	1-126-957-11	ELECT	0.22uF	20%	50V (AEP, UK, CIS)
C518	1-126-959-11	ELECT	0.47uF	20%	50V (E, E51, SP, AUS)
C519	1-164-733-11	CERAMIC CHIP	820PF	10%	50V
C520	1-164-733-11	CERAMIC CHIP	820PF	10%	50V
C521	1-126-959-11	ELECT	0.47uF	20%	50V (AEP, UK, CIS)
C521	1-126-963-11	ELECT	4.7uF	20%	50V (E, E51, SP, AUS)
C522	1-126-959-11	ELECT	0.47uF	20%	50V (AEP, UK, CIS)
C522	1-126-963-11	ELECT	4.7uF	20%	50V (E, E51, SP, AUS)
C523	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C524	1-165-621-11	CERAMIC CHIP	0.1uF		50V
C525	1-165-621-11	CERAMIC CHIP	0.1uF		50V
C526	1-165-621-11	CERAMIC CHIP	0.1uF		50V
C527	1-165-621-11	CERAMIC CHIP	0.1uF		50V
C529	1-126-961-11	ELECT	2.2uF	20%	50V
C530	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C531	1-104-665-11	ELECT	100uF	20%	10V
C532	1-162-966-11	CERAMIC CHIP	0.0022uF	10%	50V
C533	1-162-966-11	CERAMIC CHIP	0.0022uF	10%	50V
C534	1-165-621-11	CERAMIC CHIP	0.1uF		50V
C535	1-165-621-11	CERAMIC CHIP	0.1uF		50V
C538	1-165-112-11	CERAMIC CHIP	0.33uF		16V
C540	1-107-714-11	ELECT	10uF	20%	16V
C541	1-165-621-11	CERAMIC CHIP	0.1uF		50V
C542	1-165-621-11	CERAMIC CHIP	0.1uF		50V
C543	1-165-621-11	CERAMIC CHIP	0.1uF		50V
C544	1-165-621-11	CERAMIC CHIP	0.1uF		50V
		< CONNECTOR >			
CN501	1-778-981-21	CONNECTOR, BOARD TO BOARD 13P			
CN502	1-778-981-21	CONNECTOR, BOARD TO BOARD 13P			
		< DIODE >			
D1	6-500-360-01	DIODE D10XB20			
D2	6-500-340-01	DIODE G5SBA60L-6088			
D11	8-719-988-61	DIODE 1SS355TE-17			
D12	6-500-334-01	DIODE MC2836			
D13	6-500-335-01	DIODE MC2838			
D16	6-500-335-01	DIODE MC2838			
D17	6-500-334-01	DIODE MC2836			
D18	6-500-335-01	DIODE MC2838			
D19	6-500-334-01	DIODE MC2836			
D20	6-500-335-01	DIODE MC2838			
D23	8-719-988-61	DIODE 1SS355TE-17			
D24	8-719-988-61	DIODE 1SS355TE-17			
D25	8-719-083-66	DIODE UDZSTE-1718B			
D29	8-719-988-61	DIODE 1SS355TE-17			
D30	8-719-083-52	DIODE UDZS-TE17-16B			
D31	8-719-988-61	DIODE 1SS355TE-17			
D32	8-719-988-61	DIODE 1SS355TE-17			
D33	8-719-988-61	DIODE 1SS355TE-17			
D34	8-719-988-61	DIODE 1SS355TE-17			
D35	8-719-988-61	DIODE 1SS355TE-17			
D36	8-719-988-61	DIODE 1SS355TE-17			
D37	8-719-988-61	DIODE 1SS355TE-17			
D38	8-719-988-61	DIODE 1SS355TE-17			
D39	8-719-988-61	DIODE 1SS355TE-17			
D40	8-719-988-61	DIODE 1SS355TE-17			
D41	8-719-312-08	DIODE FMB-G16L			
D42	8-719-312-08	DIODE FMB-G16L			
D501	6-500-334-01	DIODE MC2836			
D502	6-500-334-01	DIODE MC2836			
D503	6-500-335-01	DIODE MC2838			
D504	6-500-335-01	DIODE MC2838			
D505	8-719-970-83	DIODE HSS82-TJ			
D506	8-719-970-83	DIODE HSS82-TJ			
D507	8-719-988-61	DIODE 1SS355TE-17			
D508	8-719-988-61	DIODE 1SS355TE-17			
D509	6-500-335-01	DIODE MC2838			
D510	6-500-334-01	DIODE MC2836			
D511	8-719-988-61	DIODE 1SS355TE-17			
D512	8-719-988-61	DIODE 1SS355TE-17			
D513	8-719-988-61	DIODE 1SS355TE-17			
D514	8-719-988-61	DIODE 1SS355TE-17			
D515	8-719-083-71	DIODE UDZSTE-1730B			
		< GROUND TERMINAL >			
* EP01	1-537-738-21	TERMINAL, EARTH			
* EP501	1-537-738-21	TERMINAL, EARTH			
		< TERMINAL BOARD >			
JK503	1-694-877-21	TERMINAL BOARD (8P) (FRONT SPEAKER, SURROUND SPEAKER)			
		< SHORT >			
JR2	1-216-864-11	SHORT CHIP 0			
JR511	1-216-864-11	SHORT CHIP 0			
JR512	1-216-864-11	SHORT CHIP 0			
JR513	1-216-296-11	SHORT CHIP 0			
JR514	1-216-864-11	SHORT CHIP 0			
JR515	1-216-864-11	SHORT CHIP 0			
JR516	1-216-864-11	SHORT CHIP 0			
JR517	1-216-864-11	SHORT CHIP 0			
		< COIL >			
L501	1-422-009-13	COIL, AIR-CORE			
L502	1-422-009-13	COIL, AIR-CORE			

Ref. No.	Part No.	Description			Remark
		< TRANSISTOR >			
Q5	6-550-289-01	TRANSISTOR	2SA1235F		
Q6	8-729-120-28	TRANSISTOR	2SC1623-L5L6		
Q7	8-729-120-28	TRANSISTOR	2SC1623-L5L6		
Q8	8-729-120-28	TRANSISTOR	2SC1623-L5L6		
Q9	8-729-120-28	TRANSISTOR	2SC1623-L5L6		
Q10	6-550-316-01	TRANSISTOR	2SB792A (RS)		
Q11	8-729-055-91	TRANSISTOR	SRA2202SF		
Q12	6-550-646-01	TRANSISTOR	2SC3143K4/K5-TB		
Q13	6-550-316-01	TRANSISTOR	2SB792A (RS)		
Q17	6-550-289-01	TRANSISTOR	2SA1235F		
Q18	6-550-040-01	FET	2SK3053		
Q19	6-550-040-01	FET	2SK3053		
Q20	6-550-317-01	TRANSISTOR	2SD814A (RS)		
Q21	8-729-120-28	TRANSISTOR	2SC1623-L5L6		
Q22	6-550-316-01	TRANSISTOR	2SB792A (RS)		
Q23	6-550-289-01	TRANSISTOR	2SA1235F		
Q24	6-550-289-01	TRANSISTOR	2SA1235F		
Q501	6-550-320-01	TRANSISTOR	2SD2562		
Q502	6-550-320-01	TRANSISTOR	2SD2562		
Q503	6-550-319-01	TRANSISTOR	2SB1649		
Q504	6-550-319-01	TRANSISTOR	2SB1649		
Q505	6-550-316-01	TRANSISTOR	2SB792A (RS)		
Q506	6-550-316-01	TRANSISTOR	2SB792A (RS)		
Q507	8-729-120-28	TRANSISTOR	2SC1623-L5L6		
Q508	8-729-120-28	TRANSISTOR	2SC1623-L5L6		
Q509	8-729-120-28	TRANSISTOR	2SC1623-L5L6		
Q510	8-729-120-28	TRANSISTOR	2SC1623-L5L6		
Q511	6-550-413-01	TRANSISTOR	2SC3478LK		
Q512	6-550-413-01	TRANSISTOR	2SC3478LK		
Q513	6-550-413-01	TRANSISTOR	2SC3478LK		
Q514	6-550-413-01	TRANSISTOR	2SC3478LK		
Q515	6-550-317-01	TRANSISTOR	2SD814A (RS)		
Q516	6-550-317-01	TRANSISTOR	2SD814A (RS)		
Q517	6-550-316-01	TRANSISTOR	2SB792A (RS)		
Q518	6-550-316-01	TRANSISTOR	2SB792A (RS)		
Q519	6-550-316-01	TRANSISTOR	2SB792A (RS)		
Q520	6-550-316-01	TRANSISTOR	2SB792A (RS)		
Q521	8-729-120-28	TRANSISTOR	2SC1623-L5L6		
Q522	8-729-120-28	TRANSISTOR	2SC1623-L5L6		
Q523	8-729-120-28	TRANSISTOR	2SC1623-L5L6		
Q524	8-729-120-28	TRANSISTOR	2SC1623-L5L6		
Q525	8-729-422-35	TRANSISTOR	2SD601A-S-TX		
Q526	8-729-422-35	TRANSISTOR	2SD601A-S-TX		
Q527	6-550-289-01	TRANSISTOR	2SA1235F		
Q529	8-729-120-28	TRANSISTOR	2SC1623-L5L6		
Q530	6-550-289-01	TRANSISTOR	2SA1235F		
Q532	8-729-120-28	TRANSISTOR	2SC1623-L5L6		
Q533	6-550-296-01	TRANSISTOR	2SA1980G		
Q534	6-550-296-01	TRANSISTOR	2SA1980G		
Q535	6-550-296-01	TRANSISTOR	2SA1980G		
Q536	6-550-289-01	TRANSISTOR	2SA1235F		
		< RESISTOR >			
R4	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R6	1-216-842-11	METAL CHIP	56K	5%	1/10W
R7	1-216-842-11	METAL CHIP	56K	5%	1/10W
R8	1-216-842-11	METAL CHIP	56K	5%	1/10W
R9	1-216-842-11	METAL CHIP	56K	5%	1/10W
R10	1-216-821-11	METAL CHIP	1K	5%	1/10W
R11	1-216-821-11	METAL CHIP	1K	5%	1/10W
R12	1-216-833-11	METAL CHIP	10K	5%	1/10W
R13	1-216-206-00	RES-CHIP	2.2K	5%	1/8W
R14	1-218-867-11	METAL CHIP	6.8K	5%	1/10W
R16	1-216-821-11	METAL CHIP	1K	5%	1/10W
R17	1-216-821-11	METAL CHIP	1K	5%	1/10W
R18	1-216-809-11	METAL CHIP	100	5%	1/10W
R19	1-216-835-11	METAL CHIP	15K	5%	1/10W
R20	1-216-833-11	METAL CHIP	10K	5%	1/10W
R21	1-216-835-11	METAL CHIP	15K	5%	1/10W
R22	1-216-839-11	METAL CHIP	33K	5%	1/10W
R23	1-216-839-11	METAL CHIP	33K	5%	1/10W
R26	1-216-827-11	METAL CHIP	3.3K	5%	1/10W
R27	1-216-833-11	METAL CHIP	10K	5%	1/10W
R28	1-216-198-00	RES-CHIP	1K	5%	1/8W
R29	1-216-138-00	METAL CHIP	3.3	5%	1/8W
R31	1-216-296-11	SHORT CHIP	0		
R32	1-216-839-11	METAL CHIP	33K	5%	1/10W
R33	1-216-833-11	METAL CHIP	10K	5%	1/10W
R34	1-216-844-11	METAL CHIP	82K	5%	1/10W
R35	1-216-839-11	METAL CHIP	33K	5%	1/10W
R36	1-216-833-11	METAL CHIP	10K	5%	1/10W
R37	1-216-844-11	METAL CHIP	82K	5%	1/10W
R38	1-216-833-11	METAL CHIP	10K	5%	1/10W
R39	1-216-845-11	METAL CHIP	100K	5%	1/10W
R40	1-216-833-11	METAL CHIP	10K	5%	1/10W
R41	1-216-827-11	METAL CHIP	3.3K	5%	1/10W
R42	1-216-827-11	METAL CHIP	3.3K	5%	1/10W
R43	1-216-827-11	METAL CHIP	3.3K	5%	1/10W
R44	1-216-244-00	RES-CHIP	82K	5%	1/8W
R45	1-216-841-11	METAL CHIP	47K	5%	1/10W
R46	1-216-841-11	METAL CHIP	47K	5%	1/10W
R47	1-216-837-11	METAL CHIP	22K	5%	1/10W
R48	1-216-849-11	METAL CHIP	220K	5%	1/10W
R49	1-216-849-11	METAL CHIP	220K	5%	1/10W
R50	1-216-833-11	METAL CHIP	10K	5%	1/10W
R51	1-216-823-11	METAL CHIP	1.5K	5%	1/10W
R52	1-216-841-11	METAL CHIP	47K	5%	1/10W
R53	1-216-827-11	METAL CHIP	3.3K	5%	1/10W
R54	1-216-835-11	METAL CHIP	15K	5%	1/10W
R55	1-249-419-11	CARBON	1.5K	5%	1/4W
R56	1-216-204-00	RES-CHIP	1.8K	5%	1/8W
R58	1-216-186-00	RES-CHIP	330	5%	1/8W
R59	1-216-184-00	RES-CHIP	270	5%	1/8W
R60	1-216-826-11	METAL CHIP	2.7K	5%	1/10W
R61	1-216-827-11	METAL CHIP	3.3K	5%	1/10W
R62	1-216-833-11	METAL CHIP	10K	5%	1/10W
R63	1-216-833-11	METAL CHIP	10K	5%	1/10W
R64	1-216-827-11	METAL CHIP	3.3K	5%	1/10W
R65	1-216-073-00	RES-CHIP	10K	5%	1/10W
R66	1-216-073-00	RES-CHIP	10K	5%	1/10W
R67	1-216-089-11	RES-CHIP	47K	5%	1/10W
R68	1-216-073-00	RES-CHIP	10K	5%	1/10W
R69	1-216-833-11	METAL CHIP	10K	5%	1/10W

POWER

Ref. No.	Part No.	Description			Remark
R70	1-216-835-11	METAL CHIP	15K	5%	1/10W
R71	1-216-833-11	METAL CHIP	10K	5%	1/10W
R72	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R73	1-216-244-00	RES-CHIP	82K	5%	1/8W
R74	1-216-238-11	RES-CHIP	47K	5%	1/8W
R75	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R76	1-216-827-11	METAL CHIP	3.3K	5%	1/10W
R77	1-216-827-11	METAL CHIP	3.3K	5%	1/10W
R78	1-216-234-00	RES-CHIP	33K	5%	1/8W
R79	1-216-830-11	METAL CHIP	5.6K	5%	1/10W
R81	1-249-431-11	CARBON	15K	5%	1/4W
R82	1-216-835-11	METAL CHIP	15K	5%	1/10W
R83	1-216-214-00	RES-CHIP	4.7K	5%	1/8W
R85	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R86	1-216-210-00	RES-CHIP	3.3K	5%	1/8W
R90	1-216-222-00	RES-CHIP	10K	5%	1/8W
R91	1-216-176-00	RES-CHIP	120	5%	1/8W
R92	1-216-210-00	RES-CHIP	3.3K	5%	1/8W
R93	1-216-210-00	RES-CHIP	3.3K	5%	1/8W
R94	1-216-833-11	METAL CHIP	10K	5%	1/10W
R95	1-216-837-11	METAL CHIP	22K	5%	1/10W
R96	1-216-214-00	RES-CHIP	4.7K	5%	1/8W
R97	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R98	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R99	1-216-210-00	RES-CHIP	3.3K	5%	1/8W
R100	1-216-138-00	METAL CHIP	3.3	5%	1/8W
R102	1-216-208-00	RES-CHIP	2.7K	5%	1/8W
R103	1-216-244-00	RES-CHIP	82K	5%	1/8W
R104	1-216-244-00	RES-CHIP	82K	5%	1/8W
R105	1-216-244-00	RES-CHIP	82K	5%	1/8W
R106	1-216-244-00	RES-CHIP	82K	5%	1/8W
R107	1-216-244-00	RES-CHIP	82K	5%	1/8W
R108	1-216-244-00	RES-CHIP	82K	5%	1/8W
R109	1-216-244-00	RES-CHIP	82K	5%	1/8W
R110	1-216-244-00	RES-CHIP	82K	5%	1/8W
R500	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
⚠R501	1-216-381-11	METAL OXIDE	0.22	5%	3W F (E51)
⚠R501	1-245-545-11	METAL OXIDE	0.22	5%	3W F (EXCEPT E51)
⚠R502	1-216-381-11	METAL OXIDE	0.22	5%	3W F (E51)
⚠R502	1-245-545-11	METAL OXIDE	0.22	5%	3W F (EXCEPT E51)
⚠R503	1-216-381-11	METAL OXIDE	0.22	5%	3W F (E51)
⚠R503	1-245-545-11	METAL OXIDE	0.22	5%	3W F (EXCEPT E51)
⚠R504	1-216-381-11	METAL OXIDE	0.22	5%	3W F (E51)
⚠R504	1-245-545-11	METAL OXIDE	0.22	5%	3W F (EXCEPT E51)
R505	1-216-809-11	METAL CHIP	100	5%	1/10W
R506	1-216-809-11	METAL CHIP	100	5%	1/10W
R507	1-216-822-11	METAL CHIP	1.2K	5%	1/10W
R508	1-216-822-11	METAL CHIP	1.2K	5%	1/10W
R509	1-216-826-11	METAL CHIP	2.7K	5%	1/10W
R510	1-216-826-11	METAL CHIP	2.7K	5%	1/10W
R511	1-216-821-11	METAL CHIP	1K	5%	1/10W
R512	1-216-821-11	METAL CHIP	1K	5%	1/10W
R513	1-218-867-11	METAL CHIP	6.8K	5%	1/10W
R514	1-218-867-11	METAL CHIP	6.8K	5%	1/10W
R515	1-216-813-11	METAL CHIP	220	5%	1/10W
R516	1-216-813-11	METAL CHIP	220	5%	1/10W
R517	1-216-804-11	METAL CHIP	39	5%	1/10W
R518	1-216-804-11	METAL CHIP	39	5%	1/10W
R519	1-216-804-11	METAL CHIP	39	5%	1/10W
R520	1-216-804-11	METAL CHIP	39	5%	1/10W
R521	1-216-824-11	METAL CHIP	1.8K	5%	1/10W
R522	1-216-824-11	METAL CHIP	1.8K	5%	1/10W
R523	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R524	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R525	1-216-821-11	METAL CHIP	1K	5%	1/10W
R526	1-216-821-11	METAL CHIP	1K	5%	1/10W
R527	1-216-841-11	METAL CHIP	47K	5%	1/10W
R528	1-216-841-11	METAL CHIP	47K	5%	1/10W
R529	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R530	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R531	1-216-823-11	METAL CHIP	1.5K	5%	1/10W
R532	1-216-823-11	METAL CHIP	1.5K	5%	1/10W
R533	1-216-809-11	METAL CHIP	100	5%	1/10W
R534	1-216-809-11	METAL CHIP	100	5%	1/10W
R535	1-216-809-11	METAL CHIP	100	5%	1/10W
R536	1-216-809-11	METAL CHIP	100	5%	1/10W
R537	1-216-198-00	RES-CHIP	1K	5%	1/8W
R538	1-216-198-00	RES-CHIP	1K	5%	1/8W
R539	1-216-833-11	METAL CHIP	10K	5%	1/10W
R540	1-216-833-11	METAL CHIP	10K	5%	1/10W
R541	1-216-206-00	RES-CHIP	2.2K	5%	1/8W
R542	1-216-206-00	RES-CHIP	2.2K	5%	1/8W
R543	1-216-206-00	RES-CHIP	2.2K	5%	1/8W
R544	1-216-206-00	RES-CHIP	2.2K	5%	1/8W
R545	1-216-809-11	METAL CHIP	100	5%	1/10W
R546	1-216-809-11	METAL CHIP	100	5%	1/10W
R547	1-216-838-11	METAL CHIP	27K	5%	1/10W
R548	1-216-838-11	METAL CHIP	27K	5%	1/10W
R549	1-216-816-11	METAL CHIP	390	5%	1/10W (E, E51, SP, AUS)
R549	1-216-817-11	METAL CHIP	470	5%	1/10W (AEP, UK, CIS)
R550	1-216-816-11	METAL CHIP	390	5%	1/10W (E, E51, SP, AUS)
R550	1-216-817-11	METAL CHIP	470	5%	1/10W (AEP, UK, CIS)
R553	1-216-838-11	METAL CHIP	27K	5%	1/10W
R554	1-216-838-11	METAL CHIP	27K	5%	1/10W
R555	1-216-841-11	METAL CHIP	47K	5%	1/10W (AEP, UK, CIS)
R555	1-216-845-11	METAL CHIP	100K	5%	1/10W (E, E51, SP, AUS)
R556	1-216-841-11	METAL CHIP	47K	5%	1/10W (AEP, UK, CIS)
R556	1-216-845-11	METAL CHIP	100K	5%	1/10W (E, E51, SP, AUS)
R557	1-216-821-11	METAL CHIP	1K	5%	1/10W
R558	1-216-821-11	METAL CHIP	1K	5%	1/10W
R559	1-216-828-11	METAL CHIP	3.9K	5%	1/10W
R560	1-216-828-11	METAL CHIP	3.9K	5%	1/10W

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

POWER **SENSOR** **SW** **TRANSFORMER**

Ref. No.	Part No.	Description			Remark
R561	1-216-843-11	METAL CHIP	68K	5%	1/10W
R562	1-216-857-11	METAL CHIP	1M	5%	1/10W
R563	1-216-214-00	RES-CHIP	4.7K	5%	1/8W
R564	1-216-214-00	RES-CHIP	4.7K	5%	1/8W
R567	1-216-214-00	RES-CHIP	4.7K	5%	1/8W
R568	1-216-214-00	RES-CHIP	4.7K	5%	1/8W
R569	1-216-853-11	METAL CHIP	470K	5%	1/10W
R570	1-260-076-21	CARBON	10	5%	1/2W
R571	1-260-076-21	CARBON	10	5%	1/2W
R572	1-216-156-00	RES-CHIP	18	5%	1/8W
R573	1-216-156-00	RES-CHIP	18	5%	1/8W
R574	1-216-182-00	RES-CHIP	220	5%	1/8W
R575	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R576	1-216-837-11	METAL CHIP	22K	5%	1/10W
R577	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R578	1-216-182-00	RES-CHIP	220	5%	1/8W
R579	1-216-156-00	RES-CHIP	18	5%	1/8W
R580	1-216-150-11	RES-CHIP	10	5%	1/8W
R581	1-216-246-00	RES-CHIP	100K	5%	1/8W
R582	1-216-156-00	RES-CHIP	18	5%	1/8W
R586	1-216-182-00	RES-CHIP	220	5%	1/8W
R587	1-216-182-00	RES-CHIP	220	5%	1/8W
R588	1-216-821-11	METAL CHIP	1K	5%	1/10W
R589	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R591	1-216-841-11	METAL CHIP	47K	5%	1/10W
R592	1-216-835-11	METAL CHIP	15K	5%	1/10W
R593	1-216-833-11	METAL CHIP	10K	5%	1/10W
R594	1-216-833-11	METAL CHIP	10K	5%	1/10W
⚠R595	1-245-546-11	METAL OXIDE	0.47	5%	1W F
⚠R596	1-245-546-11	METAL OXIDE	0.47	5%	1W F
⚠R597	1-245-546-11	METAL OXIDE	0.47	5%	1W F
⚠R598	1-245-546-11	METAL OXIDE	0.47	5%	1W F
R599	1-216-841-11	METAL CHIP	47K	5%	1/10W
R601	1-216-156-00	RES-CHIP	18	5%	1/8W
R602	1-216-156-00	RES-CHIP	18	5%	1/8W
R603	1-216-156-00	RES-CHIP	18	5%	1/8W
R604	1-216-156-00	RES-CHIP	18	5%	1/8W
		< RELAY >			
RY501	1-755-308-11	RELAY			
RY502	1-755-373-11	RELAY			
		< THERMISTOR >			
TH501	1-805-217-11	THERMISTOR (1012)			
TH502	1-805-217-11	THERMISTOR (1012)			
**********					
	1-687-132-11	SENSOR BOARD			
		**********			
		< CONNECTOR >			
CN731	1-785-329-21	PIN, CONNECTOR (LIGHT ANGLE) 3P			
		< IC >			
IC731	(not supplied)				
**********					

Ref. No.	Part No.	Description			Remark
	1-687-669-11	SW BOARD			
		*********			
		< SWITCH >			
S751	1-786-514-11	SWITCH, LEVER (SLIDE) (OPEN/CLOSE DETECT)			
**********					
	1-688-760-12	TRANSFORMER BOARD (AEP, UK, CIS, E51)			
	1-688-960-11	TRANSFORMER BOARD (E, SP, AUS)			
		**********			
*	1-533-213-31	FUSE HOLDER			
		< CAPACITOR >			
C901	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C902	1-126-941-11	ELECT	470uF	20%	25V
		< CONNECTOR >			
CN901	1-564-321-00	PIN, CONNECTOR (3.96mm PITCH) 2P			
* CN902	1-764-334-11	PLUG, CONNECTOR 11P			
		< DIODE >			
D901	8-719-988-61	DIODE 1SS355TE-17 (E51)			
D902	8-719-988-61	DIODE 1SS355TE-17			
D903	8-719-988-61	DIODE 1SS355TE-17			
D904	8-719-988-61	DIODE 1SS355TE-17			
D905	8-719-988-61	DIODE 1SS355TE-17			
D906	8-719-988-61	DIODE 1SS355TE-17 (EXCEPT E51)			
		< TRANSFORMER >			
⚠PT902	1-439-735-11	TRANSFORMER, POWER (AEP, UK, CIS)			
⚠PT902	1-439-736-11	TRANSFORMER, POWER (E51)			
⚠PT902	1-439-976-11	TRANSFORMER, POWER (E, SP, AUS)			
		< RELAY >			
⚠RY901	1-755-496-11	RELAY (E51)			
⚠RY902	1-755-276-11	RELAY, POWER (EXCEPT E51)			
		< SWITCH >			
⚠S901	1-786-404-11	SW, SL 1-2-2 SWS2201 (AC VOLTAGE) (E, SP)			
⚠S901	1-786-408-11	SW, SL 1-2-3 SWS2301 (AC VOLTAGE) (E51)			
**********					
		MISCELLANEOUS			
		**********			
58	1-769-889-11	WIRE (FLAT TYPE) (7 CORE)			
63	1-773-322-11	WIRE (FLAT TYPE) (31 CORE)			
64	1-769-976-11	WIRE (FLAT TYPE) (13 CORE)			
65	1-769-919-11	WIRE (FLAT TYPE) (9 CORE)			
68	1-827-399-11	WIRE (FLAT TYPE) (3 CORE) (E, E51, SP, AUS)			
106	1-796-487-41	DECK, MECHANICAL (CWM43RR23)			
253	1-693-626-11	TUNER (FM/AM) (AEP, UK)			
253	1-693-627-11	TUNER (FM/AM) (CIS)			
253	1-693-628-11	TUNER (FM/AM) (E, E51, SP, AUS)			
⚠302	1-690-608-11	COED, POWER (AUS)			
⚠302	1-777-071-83	CORD, POWER (AEP, CIS, E51, SP)			
⚠302	1-783-532-11	CORD, POWER (UK)			

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

Ref. No.	Part No.	Description	Remark
⚠302	1-792-948-12	CORD, POWER (E)	
308	1-769-939-11	WIRE (FLAT TYPE) (11 CORE)	(CIS, E, E51, SP, AUS)
308	1-773-003-11	WIRE (FLAT TYPE) (15 CORE) (AEP, UK)	
309	1-827-146-11	WIRE (FLAT TYPE) (19 CORE)	
509	1-776-182-11	WIRE (FLAT TYPE) (5 CORE)	
602	1-471-035-11	MAGNET ASSY	
⚠657	8-820-020-11	OPTICAL PICK-UP KSS-213D/Z-RP	
658	1-823-859-11	WIRE (FLAT TYPE) (16 CORE)	
⚠F902	1-533-469-11	FUSE, GLASS TUBE (DIA. 5) (T2.5AL/250V)	
⚠F905	1-576-655-11	FUSE, GLASS TUBE (DIA. 5) (T8AL/250V)	
⚠F906	1-576-655-11	FUSE, GLASS TUBE (DIA. 5) (T8AL/250V)	
M701	X-2625-769-1	GEAR ASSY (MB) (RP), MOTOR (SLED)	
M702	X-2161-802-1	CHASSIS ASSY (DCP), T. T (SPINDLE)	
M741	A-4723-963-A	MOTOR ASSY, TABLE	
M731	1-763-072-11	FAN, DC	
M751	A-4736-655-A	MOTOR ASSY, LOADING	
⚠PT901	1-439-940-11	TRANSFORMER, POWER (E, SP, AUS)	
⚠PT901	1-439-787-11	TRANSFORMER, POWER (E51)	
⚠PT901	1-439-789-11	TRANSFORMER, POWER (AEP, UK, CIS)	
S711	1-477-680-11	ENCODER, ROTARY	(DISC TRAY ADDRESS DETECT)

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ACCESSORIES

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⚠	1-569-008-12	ADAPTOR, CONVERSION 2P (E51)	
⚠	1-770-019-51	ADAPTOR, CONVERSION PLUG (UK)	

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

MEMO

REVISION HISTORY

Clicking the version allows you to jump to the revised page.
Also, clicking the version at the upper right on the revised page allows you to jump to the next revised page.

Ver.	Date	Description of Revision
1.0	2003.04	New